



# STIC Search Report

## EIC 3600

STIC Database Tracking Number: 183517

**TO: Mark Fadok**  
**Location: Knox 5A21**  
**Art Unit : 3625**  
**Thursday, March 30, 2006**  
**Case Serial Number: 09/864198**

**From: Janice Burns**  
**Location: EIC 3600**  
**Knox 4B71**  
**Phone: 2-3518**  
**Janice.Burns@uspto.gov**

### Search Notes

Dear Examiner

Please review the following results.

If you have an questions or need a refocused please feel to contact me.

Janice Burns, MLS  
ASRC Aerospace Corporation  
US Patent & Trademark Office  
Scientific & Technical Information Center  
Electronic Information Center 3600  
571-272-3518  
571-273-0046 (fax)  
[Janice.Burns@uspto.gov](mailto:Janice.Burns@uspto.gov)

*Revised 10/11/06*  
*Jan*  
*3-31-06*



(D)

# STIC EIC 3600 Search Request Form

1835/7

Today's Date: 3-28-06 Class/Subclass 705/263700/122 What date would you like to use to limit the search: Priority Date: 5/25/2001 Other:

Name MARK FADOK  
AU 3625 Examiner # 78738  
Room # KW5A21 Phone 26755  
Serial # 09864198

Format for Search Results (Circle One):

PAPER DISK EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB  
IEEE INSPEC SPI Other

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC3600 and on the EIC3600 NPL Web Page at <http://ptoweb/patents/stic/stic-tc3600.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Please search claim 1 including the features found in claim 4.

The novelty is that the (skeleton/setting) can be optimized by programming the ~~machine~~ <sup>ALN</sup> machine for an existing order. Taking the valued material from the BLANK AND ADVERTISING the excess for sale. RETURNING when an order is placed for the excess it is programmed into the BLANK with the first order AND SCRAP is therefore reduced.

ANY questions  
PLEASE CALL

STIC Searcher \_\_\_\_\_ Phone \_\_\_\_\_

Date picked up \_\_\_\_\_ Date Completed \_\_\_\_\_



RUSH!!  
TRAINING  
ACTING SAC  
AU 3625

Set	Items	Description
S1	12	AU=(DES CHAMPS, N? OR DES CHAMPS N? OR DESCHAMPS, N? OR D- ESCHAMPS N? OR NICHOLAS(1N)DES CHAMPS OR NICHOLAS(1N)DESCHAMP- S) OR BY=(NICHOLAS(1N)DES CHAMPS OR NICHOLAS(1N)DESCHAMPS)
S2	1	S1 AND IC=G06F-017/60
S3	1	S1 AND IC=G06F?
File 350:Derwent WPIX 1963-2006/UD,UM &UP=200620 (c) 2006 Thomson Derwent		
File 344:Chinese Patents Abs Jan 1985-2006/Jan (c) 2006 European Patent Office		
File 347:JAPIO Nov 1976-2005/Nov(Updated 060302) (c) 2006 JPO & JAPIO		
File 348:EUROPEAN PATENTS 1978-2006/ 200611 (c) 2006 European Patent Office		
File 349:PCT FULLTEXT 1979-2006/UB=20060323,UT=20060316 (c) 2006 WIPO/Univentio		

3/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2006 Thomson Derwent. All rts. reserv.

015205620

WPI Acc No: 2003-266155/200326

XRPX Acc No: N03-211362

**Raw material supply method for industrial application, involves communicating responses related to collected information of materials, sizes and thicknesses available by fabrication parties to user parties**

Patent Assignee: DES CHAMPS N H (CHAM-I)

Inventor: **DES CHAMPS N H**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020178065	A1	20021128	US 2001864198	A	20010525	200326 B

Priority Applications (No Type Date): US 2001864198 A 20010525

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020178065	A1		5 G06F-017/60	

Abstract (Basic): US 20020178065 A1

NOVELTY - The information on materials, sizes, and thicknesses available by the fabrication parties are collected. The responses related to the collected information are communicated to an appropriate user parties and the agreements between the parties for offer made are negotiated.

USE - For supplying raw materials to manufacturer of computer-room air conditioner in industrial application.

ADVANTAGE - Enables both manufacturers and consumers to reduce the cost of doing business by reducing the amount of scrap generated.

pp; 5 DwgNo 0/0

Title Terms: RAW; MATERIAL; SUPPLY; METHOD; INDUSTRIAL; APPLY; COMMUNICATE; RESPOND; RELATED; COLLECT; INFORMATION; MATERIAL; SIZE; THICK; AVAILABLE; FABRICATE; PARTY; USER; PARTY

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

File Segment: EPI



Set	Items	Description
S1	16	AU=(DES CHAMPS, N? OR DES CHAMPS N? OR DESCHAMPS, N? OR D-ESCHAMPS N? OR NICHOLAS(1N)DES CHAMPS OR NICHOLAS(1N)DESCHAMPS) OR BY=(NICHOLAS(1N)DES CHAMPS OR NICHOLAS(1N)DESCHAMPS)
S2	15	RD (unique items)
File	2:INSPEC	1898-2006/Mar W3 (c) 2006 Institution of Electrical Engineers
File	35:Dissertation Abs Online	1861-2006/Mar (c) 2006 ProQuest Info&Learning
File	65:Inside Conferences	1993-2006/Mar 29 (c) 2006 BLDSC all rts. reserv.
File	99:Wilson Appl. Sci & Tech Abs	1983-2006/Feb (c) 2006 The HW Wilson Co.
File	474:New York Times Abs	1969-2006/Mar 29 (c) 2006 The New York Times
File	475:Wall Street Journal Abs	1973-2006/Mar 29 (c) 2006 The New York Times
File	583:Gale Group Globalbase(TM)	1986-2002/Dec 13 (c) 2002 The Gale Group
File	15:ABI/Inform(R)	1971-2006/Mar 29 (c) 2006 ProQuest Info&Learning
File	20:Dialog Global Reporter	1997-2006/Mar 30 (c) 2006 Dialog
File	610:Business Wire	1999-2006/Mar 30 (c) 2006 Business Wire.
File	810:Business Wire	1986-1999/Feb 28 (c) 1999 Business Wire
File	476:Financial Times Fulltext	1982-2006/Mar 31 (c) 2006 Financial Times Ltd
File	613:PR Newswire	1999-2006/Mar 30 (c) 2006 PR Newswire Association Inc
File	813:PR Newswire	1987-1999/Apr 30 (c) 1999 PR Newswire Association Inc
File	634:San Jose Mercury	Jun 1985-2006/Mar 29 (c) 2006 San Jose Mercury News
File	624:McGraw-Hill Publications	1985-2006/Mar 30 (c) 2006 McGraw-Hill Co. Inc
File	9:Business & Industry(R)	Jul/1994-2006/Mar 29 (c) 2006 The Gale Group
File	275:Gale Group Computer DB(TM)	1983-2006/Mar 29 (c) 2006 The Gale Group
File	621:Gale Group New Prod. Annou.(R)	1985-2006/Mar 29 (c) 2006 The Gale Group
File	636:Gale Group Newsletter DB(TM)	1987-2006/Mar 29 (c) 2006 The Gale Group
File	16:Gale Group PROMT(R)	1990-2006/Mar 30 (c) 2006 The Gale Group
File	160:Gale Group PROMT(R)	1972-1989 (c) 1999 The Gale Group
File	148:Gale Group Trade & Industry DB	1976-2006/Mar 29 (c) 2006 The Gale Group
File	256:TecInfoSource	82-2006/Apr (c) 2006 Info.Sources Inc
File	47:Gale Group Magazine DB(TM)	1959-2006/Mar 28 (c) 2006 The Gale group
File	570:Gale Group MARS(R)	1984-2006/Mar 29 (c) 2006 The Gale Group
File	635:Business Dateline(R)	1985-2006/Mar 29 (c) 2006 ProQuest Info&Learning
File	477:Irish Times	1999-2006/Mar 30 (c) 2006 Irish Times

File 710:Times/Sun.Times(London) Jun 1988-2006/Mar 30  
(c) 2006 Times Newspapers  
File 711:Independent(London) Sep 1988-2006/Mar 29  
(c) 2006 Newspaper Publ. PLC  
File 756:Daily/Sunday Telegraph 2000-2006/Mar 30  
(c) 2006 Telegraph Group  
File 757:Mirror Publications/Independent Newspapers 2000-2006/Mar 30  
(c) 2006  
File 387:The Denver Post 1994-2006/Mar 29  
(c) 2006 Denver Post  
File 471:New York Times Fulltext 1980-2006/Mar 30  
(c) 2006 The New York Times  
File 492:Arizona Repub/Phoenix Gaz 19862002/Jan 06  
(c) 2002 Phoenix Newspapers  
File 494:St LouisPost-Dispatch 1988-2006/Mar 26  
(c) 2006 St Louis Post-Dispatch  
File 631:Boston Globe 1980-2006/Mar 29  
(c) 2006 Boston Globe  
File 633:Phil.Inquirer 1983-2006/Mar 28  
(c) 2006 Philadelphia Newspapers Inc  
File 638:Newsday/New York Newsday 1987-2006/Mar 27  
(c) 2006 Newsday Inc.  
File 640:San Francisco Chronicle 1988-2006/Mar 29  
(c) 2006 Chronicle Publ. Co.  
File 641:Rocky Mountain News Jun 1989-2006/Mar 29  
(c) 2006 Scripps Howard News  
File 702:Miami Herald 1983-2006/Mar 27  
(c) 2006 The Miami Herald Publishing Co.  
File 703:USA Today 1989-2006/Mar 29  
(c) 2006 USA Today  
File 704:(Portland)The Oregonian 1989-2006/Mar 28  
(c) 2006 The Oregonian  
File 713:Atlanta J/Const. 1989-2006/Mar 26  
(c) 2006 Atlanta Newspapers  
File 714:(Baltimore) The Sun 1990-2006/Mar 30  
(c) 2006 Baltimore Sun  
File 715:Christian Sci.Mon. 1989-2006/Mar 30  
(c) 2006 Christian Science Monitor  
File 725:(Cleveland)Plain Dealer Aug 1991-2006/Mar 28  
(c) 2006 The Plain Dealer  
File 735:St. Petersburg Times 1989- 2006/Mar 26  
(c) 2006 St. Petersburg Times

**2/5/5 (Item 5 from file: 2)**

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

01003249 INSPEC Abstract Number: B69001918

**Title: Development of a two watt/lb radioisotope fuelled space thermoelectric generator**

Author(s): **Des Champs, N.H.** ; Rexford, H.E.

Conference Title: Intersociety energy conversion engineering conference, 1968 Record p.448-55

Publisher: Institute of Electrical and Electronics Engineers, New York, NY, USA

Publication Date: 1968 Country of Publication: USA 1068 pp.

Conference Sponsor: IEEE

Conference Date: 13-17 Aug. 1968 Conference Location: Boulder, CO, USA

Language: English Document Type: Conference Paper (PA)

Abstract: An RTG designated as STEP II\*, having a design goal of two watts(e)/lb, is currently under development. To date electrically heated tests have produced an output of 8.25 watts(e) at 3 volts with an input of 192 watts at the heater. Generator weight is 4.86 lbs which results in an output of 1.7 watts(e)/lb. Germanium-silicon is used as the thermoelectric material and operates at a hot junction temperature of 960 degrees C. The system is designed for a 5 year life and would incorporate a 245 watt(t) Pu-238 heat source. This would be contained in a classified intact reentry fuel capsule. Adaptability of the STEP II concept to virtually any satellite is considered one of the major design features. STEP II has been dynamically tested to Scout vehicle loads and results indicate that the fuel capsule support mechanism, the critical structure, is more than sufficient for handling and launch operations.

Subfile: A B

Descriptors: aerospace; thermoelectric conversion

Class Codes: A8630M (Thermoelectric conversion); B8460 (Other direct energy conversion)

**2/5/7 (Item 2 from file: 35)**

DIALOG(R)File 35:Dissertation Abs Online

(c) 2006 ProQuest Info&Learning. All rts. reserv.

317736 ORDER NO: AAD68-02040

**ON THE ACCURACY OF MEASURING TRANSIENT SURFACE TEMPERATURES WITH EMBEDDED THERMOCOUPLES**

Author: **DES CHAMPS, NICHOLAS HOWARD**

Degree: PH.D.

Year: 1967

Corporate Source/Institution: VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY (0247)

Source: VOLUME 28/08-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3298. 210 PAGES

Descriptors: ENGINEERING, MECHANICAL

Descriptor Codes: 0548

**2/5/10 (Item 3 from file: 65)**

DIALOG(R)File 65:Inside Conferences

(c) 2006 BLDSC all rts. reserv. All rts. reserv.

03084020 INSIDE CONFERENCE ITEM ID: CN032669336

**Time Resolved Temperature Measurements and Computation of Streamer Air Discharge and Diffusion Controlled Chemistry**

Marode, E.; Samson, S.; Djermoune, D.; **Deschamps, N.**  
CONFERENCE: Advanced oxidation technologies for water and air  
remediation: Special issue on non-thermal plasma technologies-  
International conference; 4th  
JOURNAL OF ADVANCED OXIDATION TECHNOLOGIES, 1999; VOL 4; NUMBER 3 P:  
305-311  
Science & Technology Integration, Inc, 1999  
ISSN: 1203-8407  
LANGUAGE: English DOCUMENT TYPE: Conference Selected papers  
CONFERENCE EDITOR(S): Chang, J.-S.; Rosocha, L. A.; Teich, T. H.  
CONFERENCE LOCATION: Orlando, FL  
CONFERENCE DATE: Sep 1997 (199709) (199709)

BRITISH LIBRARY ITEM LOCATION: 4918.947200

NOTE:

Includes papers from the non-thermal plasma technology for gaseous  
pollution control international symposium held in Salvador, Brazil in  
August 1997

DESCRIPTORS: water remediation; air remediation; advanced oxidation  
technologies; non-thermal plasma technologies

**2/5/13 (Item 1 from file: 99)**

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2006 The HW Wilson Co. All rts. reserv.

1211553 H.W. WILSON RECORD NUMBER: BAST95006937

**Low temperature air with high IAQ for dry climates**

Scofield, C. Michael; **Des Champs, Nicholas H**

ASHRAE Journal v. 37 (Jan. '95) p. 34-40

DOCUMENT TYPE: Feature Article ISSN: 0001-2491 LANGUAGE: English

RECORD STATUS: New record

ABSTRACT: In the western U.S., low-temperature supply air refrigeration  
energy requirements and winter humidification costs can be significantly  
reduced through an evaporative cooling design strategy. In the dry  
climates that are predominant in western states, building sensible heat  
gains can be used to humidify occupied areas in winter by coupling an  
air-to-air heat exchanger to direct evaporative coolers. The use of  
evaporative cooling allows tonnage requirements of refrigeration systems to  
be greatly downsized. Moreover, it allows mechanical cooling plant to be  
decommissioned earlier in the fall and recommissioned later in the spring.  
Analysis shows that western U.S. cities with over 1.5 tons peak cooling  
load reduction per 1,000 cfm would gain first-cost savings, as well as  
energy cost savings, by implementing the evaporative cooling design  
strategy.

DESCRIPTORS: Air conditioning equipment--Design; Indoor air quality;  
Architecture and climate;

**2/5/14 (Item 2 from file: 99)**

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

(c) 2006 The HW Wilson Co. All rts. reserv.

1103911 H.W. WILSON RECORD NUMBER: BAST93036022

**HVAC design for classrooms: divide and conquer**

Scofield, C. Mike; **Des Champs, Nicholas H**

Heating/Piping/Air Conditioning v. 65 (May '93) p. 53-9

DOCUMENT TYPE: Feature Article ISSN: 0017-940X LANGUAGE: English

RECORD STATUS: New record

**ABSTRACT:** School ventilation systems have become more complex due to new ventilation requirements. New regulations, namely ASHRAE 62-1989, require 15 cfm of outside air per student in hot, humid climates. This makes humidity management the most important factor in school design. The regulation stipulates a threshold of 70 percent relative humidity in occupied spaces and low-velocity ducts. Above this, fungal contamination such as Legionnaire's disease and sick building syndrome can occur. Conversely, low-humidity has been shown to be linked to absenteeism and to respiratory infections. The proposed solution is a roof-mounted air handling system with an air-to-air heat exchanger that could be designed to handle both classroom ventilation and latent load requirements in humid climates. Problems can occur with part-load cooling conditions, such as when a classroom empties on a muggy day. Linking the air conditioning to the light switch or using motion detectors can solve this problem. This system provides a simple, efficient, and effective method of ventilation.

**DESCRIPTORS:** Ventilation--Standards; Dehumidification; Indoor air pollution; College buildings--Heating, cooling, etc;

**2/5/15 (Item 1 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2006 The Gale Group. All rts. reserv.

06485340 SUPPLIER NUMBER: 13998214 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**HVAC design for classrooms: divide and conquer.**

Scofield, Mike; **Des Champs, Nicholas H.**

Heating, Piping, Air Conditioning, v65, n5, p53(7)

May, 1993

ISSN: 0017-940X

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 2909

LINE COUNT: 00229

**SPECIAL FEATURES:** illustration; map; chart; graph

**INDUSTRY CODES/NAMES:** CNST Construction and Materials

**DESCRIPTORS:** ASHRAE--Standards; Classrooms--Heating, ventilation, air conditioning, etc.; Air quality management--Technique

**FILE SEGMENT:** TI File 148

**2/6, TI, AU/1 (Item 1 from file: 2)**  
DIALOG(R)File 2:(c) 2006 Institution of Electrical Engineers. All rts.  
reserv.

08438514 INSPEC Abstract Number: A2002-24-5270-017  
**Title: Diagnostics and modeling of high pressure streamer induced discharges**  
Author(s): Marode, E.; Dessante, Ph.; **Deschamps, N.** ; Deniset, Ch.  
Publication Date: 2001  
Copyright 2002, IEE

**2/6, TI, AU/2 (Item 2 from file: 2)**  
DIALOG(R)File 2:(c) 2006 Institution of Electrical Engineers. All rts.  
reserv.

07477661 INSPEC Abstract Number: A2000-05-6860-004, B2000-03-2550G-027  
**Title: Exploratory approaches to the study of acid diffusion and acid loss from polymer films using absorption and fluorescence spectroscopy**  
Author(s): Coenjarts, C.; Cameron, J.; **Deschamps, N.** ; Hambly, D.; Pohlers, G.; Scaiano, J.C.; Sinta, R.; Virdee, S.; Zampini, A.  
Publication Date: 1999  
Copyright 2000, IEE

**2/6, TI, AU/3 (Item 3 from file: 2)**  
DIALOG(R)File 2:(c) 2006 Institution of Electrical Engineers. All rts.  
reserv.

06835413 INSPEC Abstract Number: A9806-5280-023  
**Title: Spatiotemporal evolution of gas temperature in a corona discharge**  
Author(s): de Souza, A.R.; Touzeau, M.; Marode, E.; **Deschamps, N.**  
Editor(s): Bordage, M.C.; Gleizes, A.  
Publication Date: 1997  
Copyright 1998, IEE

**2/6, TI, AU/4 (Item 4 from file: 2)**  
DIALOG(R)File 2:(c) 2006 Institution of Electrical Engineers. All rts.  
reserv.

03062729 INSPEC Abstract Number: A83061950, B83033214  
**Title: Impurity incorporation in RAO polysilicon layers and consequences on their electrical properties**  
Author(s): Revel, G.; **Deschamps, N.** ; Deville, J.P.; Texier-Hervo, C.; Belouet, C.  
Editor(s): Bloss, W.H.; Grassi, G.  
Publication Date: 1982

**2/6, TI, AU/5 (Item 5 from file: 2)**  
DIALOG(R)File 2:(c) 2006 Institution of Electrical Engineers. All rts.  
reserv.

01003249 INSPEC Abstract Number: B69001918  
**Title: Development of a two watt/lb radioisotope fuelled space thermoelectric generator**  
Author(s): **Des Champs, N.H.** ; Rexford, H.E.  
Publication Date: 1968

**2/6,TI,AU/6 (Item 1 from file: 35)**  
DIALOG(R)File 35:(c) 2006 ProQuest Info&Learning. All rts. reserv.

566509 AAD0596039

**THE SECULARIZATION OF AMERICAN HIGHER EDUCATION: THE RELATIONSHIP BETWEEN RELIGION AND THE UNIVERSITY AS PERCEIVED BY SELECTED UNIVERSITY PRESIDENTS, 1867-1913.**

Author: **DESCHAMPS, NELLO EARL**

Year: 1976

**2/6,TI,AU/7 (Item 2 from file: 35)**  
DIALOG(R)File 35:(c) 2006 ProQuest Info&Learning. All rts. reserv.

317736 AAD6802040

**ON THE ACCURACY OF MEASURING TRANSIENT SURFACE TEMPERATURES WITH EMBEDDED THERMOCOUPLES**

Author: **DES CHAMPS, NICHOLAS HOWARD**

Year: 1967

**2/6,TI,AU/8 (Item 1 from file: 65)**  
DIALOG(R)File 65:(c) 2006 BLDSC all rts. reserv. All rts. reserv.

04758775 INSIDE CONFERENCE ITEM ID: CN049674715

**Meeting scheme requirements with proven engineering solutions: lessons from European best practice including Lyon LRT**

**Deschamps, N.**

CONFERENCE: The case for light rail-Annual conference; 2nd  
(200306) (200306)

**2/6,TI,AU/9 (Item 2 from file: 65)**  
DIALOG(R)File 65:(c) 2006 BLDSC all rts. reserv. All rts. reserv.

03563093 INSIDE CONFERENCE ITEM ID: CN037526010

**ALAIN GRANBOIS, LECTEUR DE LA CHINE**

**Deschamps, N.**

CONFERENCE: Litteratures autobiographiques de la francophonie-Colloque  
CONFERENCE EDITOR(S): Mathieu, M.  
(199405) (199405)

**2/6,TI,AU/10 (Item 3 from file: 65)**  
DIALOG(R)File 65:(c) 2006 BLDSC all rts. reserv. All rts. reserv.

03084020 INSIDE CONFERENCE ITEM ID: CN032669336

**Time Resolved Temperature Measurements and Computation of Streamer Air Discharge and Diffusion Controlled Chemistry**

Marode, E.; Samson, S.; Djermoune, D.; **Deschamps, N.**

CONFERENCE: Advanced oxidation technologies for water and air  
remediation: Special issue on non-thermal plasma technologies-  
International conference; 4th  
CONFERENCE EDITOR(S): Chang, J.-S.; Rosocha, L. A.; Teich, T. H.  
(199709) (199709)

**2/6,TI,AU/11 (Item 4 from file: 65)**  
DIALOG(R)File 65:(c) 2006 BLDSC all rts. reserv. All rts. reserv.

03030789    INSIDE CONFERENCE ITEM ID: CN032109576  
**Exploratory approaches to the study of acid diffusion and acid loss from  
polymer films using absorption and fluorescence spectroscopy (3678-111)**  
Coenjarts, C.; Cameron, J. F.; **Deschamps, N.** ; Hambly, D.  
CONFERENCE: Microlithography 1999: Advances in resist technology and  
processing-Conference; 16th  
CONFERENCE EDITOR(S): Conley, W.  
(199903) (199903)

2/6,TI,AU/12        (Item 5 from file: 65)  
DIALOG(R)File 65:(c) 2006 BLDSC all rts. reserv. All rts. reserv.

01496149    INSIDE CONFERENCE ITEM ID: CN014851563  
**SIG 31 : Un project de la D.D.E. de la Haute-Garonne**  
**Deschamps, N.**  
CONFERENCE: Groupement pour le Developpement de la Teledetection  
Aerospatiale: Geographic information; remote sensing and training;  
Information géographique, teledetection et formation-International  
symposium; 20th  
(19940) (19940)

2/6,TI,AU/13        (Item 1 from file: 99)  
DIALOG(R)File 99:(c) 2006 The HW Wilson Co. All rts. reserv.

1211553 H.W. WILSON RECORD NUMBER: BAST95006937  
**Low temperature air with high IAQ for dry climates**  
Scofield, C. Michael; **Des Champs, Nicholas H**  
19950100

2/6,TI,AU/14        (Item 2 from file: 99)  
DIALOG(R)File 99:(c) 2006 The HW Wilson Co. All rts. reserv.

1103911 H.W. WILSON RECORD NUMBER: BAST93036022  
**HVAC design for classrooms: divide and conquer**  
Scofield, C. Mike; **Des Champs, Nicholas H**  
19930500

2/6,TI,AU/15        (Item 1 from file: 148)  
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.

06485340        SUPPLIER NUMBER: 13998214        (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**HVAC design for classrooms: divide and conquer.**  
Scofield, Mike; **Des Champs, Nicholas H.**  
May, 1993  
WORD COUNT:    2909        LINE COUNT:    00229



Set	Items	Description
S1	3698220	COLLECT??? OR GATHER??? OR AMASS??? OR ACCUMULAT??? OR OBT- AIN??? OR FIND??? OR IDENTIFY??? OR IDENTIF???
S2	4724398	INFORMATION OR DATA OR SIZE OR SIZES OR THICKNESS? OR GAGE
S3	260463	RAW() MATERIAL OR SCRAP OR (BLANK OR UNUSED OR USABLE OR RE- MAINING OR AVAILABLE OR LEFT() OVER OR UNCUT OR UNPUNCH? OR UN- ( ) (CUT OR PUNCH? OR SHEAR?)) (2N) (METAL OR MATERIAL? OR SECTIO- N? OR SPACE OR PIECE?)
S4	58355	FABRICATOR? OR MANUFACTURER? OR METALWORK? OR COMPAN??? OR PARTIES
S5	1070178	S1 AND S2
S6	13742	S5 AND S3
S7	66	S6 AND S4
S8	30	S7 AND IC=G06F-017/60
S9	30	IDPAT (sorted in duplicate/non-duplicate order)
S10	28	IDPAT (primary/non-duplicate records only)

File 350:Derwent WPIX 1963-2006/UD,UM &UP=200620  
(c) 2006 Thomson Derwent

File 344:Chinese Patents Abs Jan 1985-2006/Jan  
(c) 2006 European Patent Office

File 347:JAPIO Nov 1976-2005/Nov(Updated 060302)  
(c) 2006 JPO & JAPIO

10/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2006 Thomson Derwent. All rts. reserv.

017599951

WPI Acc No: 2006-111206/200612

XRPX Acc No: N06-096337

Raw material amount and price early warning system for flow path  
oriented enterprises

Patent Assignee: UNIV CENT SOUTH (UYSU-N)

Inventor: CHEN X; GUI W; WU M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CN 1667624	A	20050914	CN 200422968	A	20040310	200612 B

Priority Applications (No Type Date): CN 200422968 A 20040310

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
CN 1667624	A		G06F-017/60	

Abstract (Basic): CN 1667624 A

NOVELTY - A raw material quantity and price early warning system oriented to Flow-path Company. First, this invention establishes an early-warning quota system in company and collects quantitative and qualitative information relative to object. Quantitative information is disposed in data processing module and then analyzed in predictable integration module. Qualitative information is analyzed in analytic intelligent integration module. Intelligent decision-making module employs artificial intelligence technology to process decision-making information from predictable integration module and analytic intelligent integration module and sends early-warning information.

DwgNo 0/0

Title Terms: RAW; MATERIAL; AMOUNT; PRICE; EARLY; WARNING; SYSTEM; FLOW; PATH; ORIENT

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

10/5/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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017458702 \*\*Image available\*\*

WPI Acc No: 2005-782377/200580

XRPX Acc No: N05-647603

Transaction processing system for food processing, writes performance data including processing date and additional material, based on collation of job instruction in radio frequency identification tag, and raw material

Patent Assignee: NEC SOFTWARE KYUSHU LTD (KYUN )

Inventor: TAHARA T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2005309972	A	20051104	JP 2004128484	A	20040423	200580 B

Priority Applications (No Type Date): JP 2004128484 A 20040423

## Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
JP 2005309972 A 7 G05B-019/418

## Abstract (Basic): JP 2005309972 A

NOVELTY - A processing terminal (11) writes job instruction, **raw material** details and delivery date in radio frequency identification (RFID) tag (12). A processing terminal (23) of trust **company** writes performance **data** with processing date and additional material in tag, based on collation of job instruction and **raw material**. A terminal (25) writes shipping **data** while confirming delivery of product manufactured based on instruction.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for transaction processing method.

USE - For processing transaction while business outsourcing to trust **company** for food processing and metal processing.

ADVANTAGE - The overlapping **data** entry operation is made unnecessary and the working efficiency is improved sharply.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the transaction processing system. (Drawing includes non-English language text).

production control system (10,12)  
terminal (11-25)  
RFID tag (12-26)  
pp; 7 DwgNo 1/3

Title Terms: TRANSACTION; PROCESS; SYSTEM; FOOD; PROCESS; WRITING;  
PERFORMANCE; **DATA** ; PROCESS; DATE; ADD; MATERIAL; BASED; COLLATE; JOB;  
INSTRUCTION; RADIO; FREQUENCY; **IDENTIFY** ; TAG; RAW; MATERIAL  
Derwent Class: T01; T06; W05; X25  
International Patent Class (Main): G05B-019/418  
International Patent Class (Additional): **G06F-017/60**  
File Segment: EPI

10/5/3 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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017372238 \*\*Image available\*\*  
WPI Acc No: 2005-695887/200572  
XRPX Acc No: N05-570946

**Profit-and-loss managed information presentation method in steel industry, involves retrieving profit-and-loss plan value from database using form code provided for each bundle of raw material of specific size**

Patent Assignee: KAWASAKI STEEL CORP (KAWI )  
Inventor: KURUSHIMA K  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2005284698	A	20051013	JP 200497438	A	20040330	200572 B

Priority Applications (No Type Date): JP 200497438 A 20040330

## Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
JP 2005284698 A 32 G06F-017/60

## Abstract (Basic): JP 2005284698 A

NOVELTY - The **raw material** bundled according to the specification **size** , is provided with a form code so that the

profit-and-loss plan value is calculated according to the sales processed using the form code. The profit-and-loss plan value are stored in database. The plan value is retrieved from the database using the code, for presenting the profit-and-loss managed **information**.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) profit-and-loss managed **information** presentation apparatus;
- (2) profit-and-loss management method; and
- (3) profit-and-loss management processing program.

USE - For presenting profit-and-loss managed **information** in sales production planning support system of **company** such as steel industry.

ADVANTAGE - The appropriate profit-and-loss **data** of each goods is **obtained** reliably.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the **company** sector response system. (Drawing includes non-English language text).

- sales-production planning support system (1)
- sales plan support system (2)
- profit-and-loss management system (3)
- sales performance management system (4)
- order entry system (5)

pp; 32 DwgNo 5/20

Title Terms: PROFIT; LOSS; **INFORMATION** ; PRESENT; METHOD; STEEL; INDUSTRIAL; RETRIEVAL; PROFIT; LOSS; PLAN; VALUE; DATABASE; FORM; CODE; BUNDLE; RAW; MATERIAL; SPECIFIC; **SIZE**

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

File Segment: EPI

**10/5/4 (Item 4 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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017128324 \*\*Image available\*\*

WPI Acc No: 2005-452667/200546

XRPX Acc No: N05-368643

**Plastic recycle system exchanges information of plastic raw material, reworked plastic material and reworked plastic product, between traders e.g. plastic collection trader and plastic regeneration trader, through internet**

Patent Assignee: RICOH KK (RICO )

Inventor: KASHIWAKURA T; SOMA S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2005182360	A	20050707	JP 2003420709	A	20031218	200546 B

Priority Applications (No Type Date): JP 2003420709 A 20031218

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2005182360	A		10	G06F-017/60	

Abstract (Basic): JP 2005182360 A

NOVELTY - A generic server exchanges **information** such as customer and trader **data**, transport **data** and **data** of plastic **raw material**, reworked plastic material and reworked plastic product, between plastic recycle related traders such as plastic **collection** trader (1a), plastic regeneration trader (2a), plastic **raw material manufacturer** (3a) and plastic product **manufacturer** (4a), through

internet.

USE - Plastic recycle system.

ADVANTAGE - Recycling of plastic can be performed quickly and efficiently.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the plastic recycle system. (Drawing includes non-English language text).

plastic **collection** trader (1a)

plastic regeneration trader (2a)

plastic **raw material manufacturer** (3a)

plastic product **manufacturer** (4a)

customer (10)

pp; 10 DwgNo 1/8

Title Terms: PLASTIC; RECYCLE; SYSTEM; EXCHANGE; **INFORMATION** ; PLASTIC;  
RAW; MATERIAL; PLASTIC; MATERIAL; PLASTIC; PRODUCT; PLASTIC; **COLLECT** ;  
PLASTIC; REGENERATE; THROUGH

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

File Segment: EPI

**10/5/5 (Item 5 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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016812395 \*\*Image available\*\*

WPI Acc No: 2005-136676/200515

XRPX Acc No: N05-117137

**Content distribution system organizes content from raw material data collected from shops or manufacturer , and delivers it to requesting origin based on prestored scenario information**

Patent Assignee: ZH TENPO SYSTEM KYOKAI (TENP-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2005037988	A	20050210	JP 2003197014	A	20030715	200515 B

Priority Applications (No Type Date): JP 2003197014 A 20030715

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2005037988	A		18	G06F-017/60	

Abstract (Basic): JP 2005037988 A

NOVELTY - A **collection** unit **collects** the **raw material data** from shops, goods supply **manufacturer** . A scenario database (201) stores the scenario **information** . A content organization unit organizes the content from the **raw material data** and delivers it to the requesting origin, based on scenario **information** .

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) content provision system; and

(2) content delivery method.

USE - For distributing contents to customers visiting shops.

ADVANTAGE - Enables delivering requested contents efficiently to the customer, based on the scenario **information** .

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the content distribution system. (Drawing includes non-English language text).

network (1)

content delivery unit (20)

mobile telephone (60)

scenario database (201)  
 content database (202)  
 log **information** database (203)  
 pp; 18 DwgNo 1/9  
 Title Terms: CONTENT; DISTRIBUTE; SYSTEM; ORGANISE; CONTENT; RAW; MATERIAL;  
**DATA ; COLLECT ; SHOP; MANUFACTURE; DELIVER; REQUEST; ORIGIN; BASED;**  
**INFORMATION**  
 Derwent Class: T01; W02; W04  
 International Patent Class (Main): **G06F-017/60**  
 International Patent Class (Additional): H04N-005/91; H04N-007/173  
 File Segment: EPI

**10/5/6 (Item 6 from file: 350)**  
 DIALOG(R)File 350:Derwent WPIX  
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016787117 \*\*Image available\*\*  
 WPI Acc No: 2005-111393/200512  
 XRPX Acc No: N05-096253

Raw material , land use input and non-product output determining  
**method for management decision making in e.g. industry, involves**  
 obtaining **materials inventory and land for product production of product**  
**or delivery of service**

Patent Assignee: BEAVER E R (BEAV-I)

Inventor: BEAVER E R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050015287	A1	20050120	US 2003472641	P	20030522	200512 B
			US 2003485940	P	20030709	
			US 2004852379	A	20040524	

Priority Applications (No Type Date): US 2004852379 A 20040524; US  
 2003472641 P 20030522; US 2003485940 P 20030709

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20050015287	A1	15	G06F-017/60	Provisional application US 2003472641

Provisional application US 2003485940

Abstract (Basic): US 20050015287 A1

NOVELTY - The method involves **obtaining** an inventory of raw materials and land necessary for production of a product or delivery of a service. Non-product outputs of the production or delivery are quantified. The **raw material** inputs and non-product outputs are numerical values that are converted into common units. The numerical values are compared in terms of their negative impacts or their benefits.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(A) a method for determining estimate of the benefits and costs for a product to be manufactured or a service rendered

(B) a method for **identifying** , assessing, and optimizing future impacts of research and development decisions on a technology

(C) a method for comparing estimated non-traditional costs with a service to be provided

(D) a graphic user interface software for visual representation of computed metrics and costs

(E) a method for utilizing government databases to calculate

benchmark metrics and

(F) a method for representing the sustainability of a process, facility, project alternative, business or a **company** which is understandable to the non-expert.

USE - Used for determining **raw material**, land use input and non-product output for management decision making by incorporating sustainability metrics e.g. material use, water use, energy use, toxics emitted, land use and overall pollutants emitted, complementary metrics e.g. greenhouse gas, eutrophication material, acidification material, ozone creating or depleting material, and total cost and benefit analysis e.g. net present value of costs of unrealized environmental impact, including toxicity to plant and animal, depletion of natural resource and benefit to society of use of resource, such as land and **raw material**, in industry, government and education.

ADVANTAGE - The method simplifies the integration of **data** from a diverse set of sources for environmental costs and societal benefit **data**. The output of the calculations directly and easily integrates with the business practices of an industrial enterprise and decision planning.

DESCRIPTION OF DRAWING(S) - The drawing shows boundaries for metrics calculation.

pp; 15 DwgNo 3/5

Title Terms: RAW; MATERIAL; LAND; INPUT; NON; PRODUCT; OUTPUT; DETERMINE; METHOD; MANAGEMENT; DECIDE; INDUSTRIAL; **OBTAIN**; MATERIAL; INVENTORY; LAND; PRODUCT; PRODUCE; PRODUCT; DELIVER; SERVICE

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

File Segment: EPI

**10/5/7 (Item 7 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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016522912 **\*\*Image available\*\***

WPI Acc No: 2004-681343/200467

XRPX Acc No: N04-540222

**Product information management system stores information of product dealt with traders in database, so that product code in product information is used for identifying products used by individual traders**

Patent Assignee: MITSUBISHI DENKI TOBU COMPUTER SYSTEM KK (MITQ )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2004265106	A	20040924	JP 200354371	A	20030228	200467 B

Priority Applications (No Type Date): JP 200354371 A 20030228

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2004265106	A		14	G06F-017/60	

Abstract (Basic): JP 2004265106 A

NOVELTY - A production **information** registration unit stores **information** of product dealt with traders in a database, so that the product code in product **information** is used for **identifying** the products used by individual traders.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for product **information** control program.

USE - For managing and registering product **information** like **raw**

**material** , quality, use, producing district, name of article, type, point of origin, weight, transport **information** , production date and transport date which are searched and browsed by purchaser.

ADVANTAGE - The consumer can **obtain** the product **information** of desired traders quickly and reliably.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of product **information** management system. (Drawing includes non-English language text).

server (10)

database (11)

producer terminal (12)

**manufacturer** terminal (13B)

trader's terminal (14)

pp; 14 DwgNo 1/6

Title Terms: PRODUCT; **INFORMATION** ; MANAGEMENT; SYSTEM; STORAGE;  
**INFORMATION** ; PRODUCT; DEAL; DATABASE; SO; PRODUCT; CODE; PRODUCT;  
**INFORMATION** ; **IDENTIFY** ; PRODUCT; INDIVIDUAL

Derwent Class: P76; T01

International Patent Class (Main): **G06F-017/60**

International Patent Class (Additional): B42D-011/00

File Segment: EPI; EngPI

**10/5/8 (Item 8 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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016340491 \*\*Image available\*\*

WPI Acc No: 2004-498388/200447

XRPX Acc No: N04-393639

**Work scheduling and material delivery method for information handling system, involves generating and executing material request plan for producing item based on inventory current state**

Patent Assignee: BEEBE M D (BEEB-I); CASTLE M S (CAST-I); JONES K T (JONE-I); MARRS J A (MARR-I)

Inventor: BEEBE M D; CASTLE M S; JONES K T; MARRS J A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040117230	A1	20040617	US 2002320889	A	20021216	200447 B

Priority Applications (No Type Date): US 2002320889 A 20021216

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20040117230 A1 16 G06F-017/60

Abstract (Basic): US 20040117230 A1

NOVELTY - The current state of an **available** inventory of **material** is determined from several material sources based on customer order including an item ordered by the customer (250) such as individual or business entity. A material request plan for producing the item is generated based on the inventory current state. The plan including netting deliveries of material with planned request for material is executed.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) system for scheduling work and delivery of material for items in factory; and

(2) an apparatus for scheduling work and delivery of material for items in factory.



USE - For scheduling of work and delivery of material for items or products such as **information** handling system including any instrumentality or aggregate of instrumentalities operable to compute, classify, process, transmit, receive, retrieve, originate, switch, store, display, manifest, detect, record, reproduce, handle or utilize any form of **information**, intelligence or **data** for business, scientific, control or other purposes especially personal computer, printer, processor, monitor, network storage device including RAM, one or more processing resources such as CPU or hardware or software control logic, ROM or other types of non-volatile memory, disk drives, network ports for communicating with external devices as well as input/output devices such as keyboard, mouse and video display, in factory or product manufacture line.

ADVANTAGE - Allows delivery overages to be addressed so that the overages do not **accumulate** across planning cycles.

DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram of supply chain for **manufacturer** having several factories.

factories (240A-240C)  
manufacturing lines (242A-242D)  
customer (250)  
pp; 16 DwgNo 2/6

Title Terms: WORK; SCHEDULE; MATERIAL; DELIVER; METHOD; **INFORMATION** ;  
HANDLE; SYSTEM; GENERATE; EXECUTE; MATERIAL; REQUEST; PLAN; PRODUCE; ITEM  
; BASED; INVENTORY; CURRENT; STATE

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

File Segment: EPI

**10/5/9 (Item 9 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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016193107 \*\*Image available\*\*

WPI Acc No: 2004-350993/200433

XRAM Acc No: C04-133902

XRPX Acc No: N04-280911

**Plastic article recycle management method involves recycling used articles, based on manufacture and transport information of article registered in database**

Patent Assignee: KAWASAKI STEEL CORP (KAWI )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2004074585	A	20040311	JP 2002238185	A	20020819	200433 B

Priority Applications (No Type Date): JP 2002238185 A 20020819

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2004074585	A		11	B29B-017/00	

JP 2004074585 A 11 B29B-017/00

Abstract (Basic): JP 2004074585 A

NOVELTY - A plastic article such as panel (10) for concrete formwork is manufactured by using a waste plastic as **raw material** and is transported to a construction field (5). The manufacturing **information** e.g. product number, **company** name and transport **information** such as shipment, money claimed are registered in a database (14).

DETAILED DESCRIPTION - A plastic article such as panel (10) for concrete formwork is manufactured by using a waste plastic as **raw**

**material** and is transported to a construction field (5). The manufacturing **information** e.g. product number, **company** name and transport **information** such as shipment, money claimed are registered in a database (14). The used articles are **collected** and are recycled, based on the registered **information**.

An INDEPENDENT CLAIM is also included for plastic article recycle management system.

USE - For managing recycle of plastic article such as panel for concrete formwork.

ADVANTAGE - An eco-friendly method is performed at low cost and with improved working efficiency.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the plastic article recycle management system. (Drawing includes non-English language text).

manufacturing plant (3a)  
construction field (5)  
panel for concrete formwork (10)  
communication network (12)  
database (14)  
pp; 11 DwgNo 1/4

Title Terms: PLASTIC; ARTICLE; RECYCLE; MANAGEMENT; METHOD; RECYCLE; ARTICLE; BASED; MANUFACTURE; TRANSPORT; **INFORMATION** ; ARTICLE; REGISTER; DATABASE

Derwent Class: A35; T01; X25

International Patent Class (Main): B29B-017/00

International Patent Class (Additional): **G06F-017/60**

File Segment: CPI; EPI

**10/5/10 (Item 10 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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016141542 \*\*Image available\*\*

WPI Acc No: 2004-299418/200428

XRPX Acc No: N04-237855

**Product information management center e.g. for pharmaceutical products, registers identification information of new product, and identification information of raw materials of processed products**

Patent Assignee: OMRON KK (OMRO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2004094396	A	20040325	JP 2002251888	A	20020829	200428 B

Priority Applications (No Type Date): JP 2002251888 A 20020829

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2004094396	A	18	G06F-017/60	

Abstract (Basic): JP 2004094396 A

NOVELTY - A **data** center (10) registers the identification **information** of a new product, input from **manufacturer** terminals (20a-20d), and the identification **information** of raw materials of processed products. The **data** center sends the **information** related to the product to consumer terminal (30), on receiving product **information** requirement command.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) product **information** management system;

- (2) product **information** management method; and
- (3) **manufacturer** terminal.

USE - For management of **information** about product such as pharmaceutical products, cosmetics etc., and the **information** about **raw material** of the product, such as foodstuffs including diary products, meat, fodder etc.

ADVANTAGE - The **information** about the product can be easily known using the identification **information** of the product.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the product **information** management system. (Drawing includes non-English language text).

**data** center (10)

**manufacturer** terminals (20a-20d)

consumer terminal (30)

pp; 18 DwgNo 1/14

Title Terms: PRODUCT; **INFORMATION** ; MANAGEMENT; PHARMACEUTICAL; PRODUCT;  
REGISTER; **IDENTIFY** ; **INFORMATION** ; NEW; PRODUCT; **IDENTIFY** ;  
**INFORMATION** ; RAW; MATERIAL; PROCESS; PRODUCT

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

International Patent Class (Additional): G06K-007/00

File Segment: EPI

10/5/11 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015890503 \*\*Image available\*\*

WPI Acc No: 2004-048338/200405

XRFX Acc No: N04-039530

**Food processing information management system for food processing sector company , generates warning sign during database update when identification code of raw material input is already recorded on worksheet**

Patent Assignee: DAINIPPON PRINTING CO LTD (NIPQ )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003345413	A	20031205	JP 2002152861	A	20020527	200405 B

Priority Applications (No Type Date): JP 2002152861 A 20020527

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2003345413 A 12 G05B-019/418

Abstract (Basic): JP 2003345413 A

NOVELTY - A database (23) contains the identification code of **raw material** or partially fabricated item recorded on a worksheet. A processing achievement record unit (21) searches **information** related to **raw material** of final product from the worksheet and gives a warning sign, when identification code of the **raw material** input by input terminal (10) is already recorded on the worksheet, during the updating process of database.

USE - For food processing sector **company** for managing **information** of processed product, livestock product, agricultural product, processed food and foodstuffs.

ADVANTAGE - By managing **information** , the display of irregular pack date of processed food products are avoided.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the

food processing **information** management system. (Drawing includes non-English language text).

input terminal (10)  
controller (20)  
processing achievement record unit (21)  
database (23)  
mismatch detector (24)  
pp; 12 DwgNo 3/11

Title Terms: FOOD; PROCESS; **INFORMATION** ; MANAGEMENT; SYSTEM; FOOD;  
PROCESS; SECTOR; **COMPANY** ; GENERATE; WARNING; SIGN; DATABASE; UPDATE;  
**IDENTIFY** ; CODE; RAW; MATERIAL; INPUT; RECORD; WORKSHEET  
Derwent Class: T01; T06; X25  
International Patent Class (Main): G05B-019/418  
International Patent Class (Additional): **G06F-017/60**  
File Segment: EPI

**10/5/12 (Item 12 from file: 350)**

DIALOG(R)File 350:Derwent WPIX  
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015448832

WPI Acc No: 2003-510974/200348

**Method for processing food based on Internet**

Patent Assignee: JUNG S Y (JUNG-I); KWON S C (KWON-I)

Inventor: JUNG S Y; KWON S C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2003010021	A	20030205	KR 200144755	A	20010725	200348 B

Priority Applications (No Type Date): KR 200144755 A 20010725

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2003010021	A		1	G06F-017/60	

Abstract (Basic): KR 2003010021 A

NOVELTY - A food processing method is provided to open an ordered food processing status to a customer and to optimize a food supply time limit so that it can enhance a reliability of the food and reduce a cost of a stock management.

DETAILED DESCRIPTION - The method comprises several steps. A client accesses an operation server over the Internet, inputs personal **data** , and orders a processed food(S10). The server **collects** the orders from the clients, and prepares for a process of the food(S20). **Raw material** is put into a vessel, and the bar code adhered to the vessel is read by a bar code reader before the vessel is entered into a food processing plant(S30). A sample is extracted and tested by a food test institute, for example, for testing a gene manipulation or a residue of agricultural chemicals, and a test result is transmitted to the client and the operation server(S40). If there is no problem in the **raw material** , a food processing step is started(S50). After the food processing is finished, a sample is extracted, being submitted to and being tested by a nutrition analysis institute, and its test result being offered to the client(S60). The processed food is packaged and delivered to the client via a delivery **company** (S70).

pp; 1 DwgNo 0/10

Title Terms: METHOD; PROCESS; FOOD; BASED

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

File Segment: EPI

**10/5/13 (Item 13 from file: 350)**  
 DIALOG(R)File 350:Derwent WPIX  
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015442216 \*\*Image available\*\*  
 WPI Acc No: 2003-504358/200347  
 XRPX Acc No: N03-400511

**Unusable printed postage recovery method, involves storing information identifying mail piece and metered mail piece in postal indicia and remote site respectively and refunding postage if both information are same**

Patent Assignee: PITNEY BOWES INC (PITB )  
 Inventor: KOVLAKAS P A  
 Number of Countries: 101 Number of Patents: 005  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030089765	A1	20030515	US 2001999310	A	20011115	200347 B
WO 200344689	A1	20030530	WO 2002US36455	A	20021114	200347
US 6592027	B2	20030715	US 2001999310	A	20011115	200348
AU 2002366073	A1	20030610	AU 2002366073	A	20021114	200419
EP 1459204	A1	20040922	EP 2002803616	A	20021114	200462
			WO 2002US36455	A	20021114	

Priority Applications (No Type Date): US 2001999310 A 20011115

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030089765	A1		11	G06F-017/00	
WO 200344689	A1	E		G06F-017/00	
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW					
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW					
US 6592027	B2			G06F-017/00	
AU 2002366073	A1			G06F-017/00	Based on patent WO 200344689
EP 1459204	A1	E		G06F-017/00	Based on patent WO 200344689
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					

Abstract (Basic): US 20030089765 A1

NOVELTY - The method involves placing **information** that uniquely **identifies** a mail piece in postal indicia. The **information** that **identifies** each metered mail piece is stored at a remote site. A refund for a mail piece that is not posted is requested and determined whether the **information** in postal indicia and remote site are the same. The postage is refunded if both the **information** is same and the mail piece is destroyed.

USE - Used for recovery of unusable printed postage in franking machines.

ADVANTAGE - The mailer need not deliver the **unused** mail **pieces** to the meter **manufacturer** for refund. The method automatically recovers the postage that has been debited to the mailers meter, thereby reducing the cost and saving mailers time.

DESCRIPTION OF DRAWING(S) - The drawing shows a flowchart for the postage recovery process for refunding funds.

pp; 11 DwgNo 6/6  
Title Terms: PRINT; POSTAGE; RECOVER; METHOD; STORAGE; **INFORMATION** ;  
**IDENTIFY** ; MAIL; PIECE; METER; MAIL; PIECE; POSTAL; INDICIA; REMOTE; SITE  
; RESPECTIVE; POSTAGE; **INFORMATION**  
Derwent Class: T05  
International Patent Class (Main): G06F-017/00  
International Patent Class (Additional): **G06F-017/60** ; G06F-017/600;  
H04K-001/00; H04K-001/000; H04L-009/00; H04L-009/000  
File Segment: EPI

**10/5/14 (Item 14 from file: 350)**  
DIALOG(R)File 350:Derwent WPIX  
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015305009 \*\*Image available\*\*  
WPI Acc No: 2003-365943/200335  
XRPX Acc No: N03-292267

**Optimal ordering intermediary system for container makers, generates optimal production plan based on order received from retail stores and provides generated plan along with order information to manufacturing company**

Patent Assignee: TOYO SEIKAN KAISHA LTD (TOXO )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002183485	A	20020628	JP 2000377059	A	20001212	200335 B

Priority Applications (No Type Date): JP 2000377059 A 20001212

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002183485	A		11	G06F-017/60	

Abstract (Basic): JP 2002183485 A

NOVELTY - An intermediate planning unit receives order **information** from retail stores and brand owners, and generates optimal production plan based on the order **information** . The generated plan is provided to the orderer. The order **information** along with the optimal production plan is transmitted to the product manufacturing **company** based on the permission received from the orderer.

USE - For generating optimal production plan used by **companies** such as container makers, filling packers, **raw material** suppliers.

ADVANTAGE - Effective generation of optimal production plan is enabled based on the **information collected** from the suppliers and customers.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the optimal ordering intermediary system. (Drawing includes non-English language text).

pp; 11 DwgNo 1/1  
Title Terms: OPTIMUM; ORDER; INTERMEDIARY; SYSTEM; CONTAINER; MAKER;  
GENERATE; OPTIMUM; PRODUCE; PLAN; BASED; ORDER; RECEIVE; RETAIL; STORAGE;  
GENERATE; PLAN; ORDER; **INFORMATION** ; MANUFACTURE; **COMPANY**  
Derwent Class: T01  
International Patent Class (Main): **G06F-017/60**  
File Segment: EPI

**10/5/15 (Item 15 from file: 350)**  
DIALOG(R)File 350:Derwent WPIX  
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015252917    \*\*Image available\*\*

WPI Acc No: 2003-313843/200330

XRPX Acc No: N03-249898

Data management system for raw material has database of raw material specifications searchable by raw material code

Patent Assignee: KIMBERLY-CLARK WORLDWIDE INC (KIMB ); KIMBERLY-CLARK CORP (KIMB ); BERTELLO M J (BERT-I); BOYD A H (BOYD-I); FISHER T K (FISH-I); LINDSAY J D (LIND-I); MCCARTY W E (MCCA-I); PARK S J (PARK-I); PONTIUS J W (PONT-I); SAUER C L (SAUE-I)

Inventor: BERTELLO M J; BOYD A H; FISHER T K; LINDSAY J D; MCCARTY W E; PARK S J; PONTIUS J W; SAUER C L

Number of Countries: 102    Number of Patents: 009

## Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200329927	A2	20030410	WO 2002US31244	A	20020930	200330 B
US 20030069795	A1	20030410	US 2001326128	P	20010928	200340
			US 2002253200	A	20020923	
EP 1430435	A2	20040623	EP 2002800403	A	20020930	200441
			WO 2002US31244	A	20020930	
KR 2004034734	A	20040428	KR 2004703615	A	20040311	200455
AU 2002334763	A1	20030414	AU 2002334763	A	20020930	200460
MX 2004002205	A1	20040601	WO 2002US31244	A	20020930	200504
			MX 20042205	A	20040308	
JP 2005505046	W	20050217	WO 2002US31244	A	20020930	200513
			JP 2003533074	A	20020930	
CN 1554065	A	20041208	CN 2002817778	A	20020930	200517
ZA 200402012	A	20050928	ZA 20042012	A	20040312	200570

Priority Applications (No Type Date): US 2002253200 A 20020923; US 2001326128 P 20010928

## Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200329927	A2	E	29	G06F-000/00	
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW					
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW					
US 20030069795	A1			G06F-017/60	Provisional application US 2001326128

EP 1430435    A2 E    G06F-017/60    Based on patent WO 200329927

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

KR 2004034734    A    G06F-017/60

AU 2002334763    A1    G06F-000/00    Based on patent WO 200329927

MX 2004002205    A1    G06F-000/00000    Based on patent WO 200329927

JP 2005505046    W    57    G06F-017/60    Based on patent WO 200329927

CN 1554065    A    G06F-017/60

ZA 200402012    A    41    G06F-000/00

## Abstract (Basic): WO 200329927 A2

NOVELTY - System comprises a data transfer network (Internet or intranet), a database of raw material specifications, a database of raw material property data, a data entry system with a scanner, a generator for comparing transmitted raw material property data with the material specification, and a signal generator generating a compliance signal for the raw material. The data entry system can verify the training of an operator before he is allowed access,

material property codes can be displayed and a certificate of analysis is generated. Errors can be corrected and time stamping documents actions taken.

DETAILED DESCRIPTION - There is an INDEPENDENT CLAIM for a method for a **manufacturer** to **obtain** compliant **raw material**.

USE - System is for managing **data** between suppliers and **manufacturers**.

ADVANTAGE - System improves quality control, enables suppliers to provide **information** on **raw material** properties and allows rapid verification of the incoming materials by the receiving **manufacturer**.

DESCRIPTION OF DRAWING(S) - The figure shows a **data** management process.

pp; 29 DwgNo 1/3

Title Terms: **DATA**; MANAGEMENT; SYSTEM; RAW; MATERIAL; DATABASE; RAW; MATERIAL; SPECIFICATION; SEARCH; RAW; MATERIAL; CODE

Derwent Class: T01

International Patent Class (Main): G06F-000/00; G06F-000/00000;

**G06F-017/60**

International Patent Class (Additional): G05B-019/418; G06F-007/00

File Segment: EPI

**10/5/16 (Item 16 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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015205620

WPI Acc No: 2003-266155/200326

XRFX Acc No: N03-211362

Raw material **supply method for industrial application, involves communicating responses related to** collected information of **materials, sizes and thicknesses available by fabrication parties to user parties**

Patent Assignee: DES CHAMPS N H (CHAM-I)

Inventor: DES CHAMPS N H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020178065	A1	20021128	US 2001864198	A	20010525	200326 B

Priority Applications (No Type Date): US 2001864198 A 20010525

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20020178065 A1 5 G06F-017/60

Abstract (Basic): US 20020178065 A1

NOVELTY - The **information** on materials, **sizes**, and **thicknesses** available by the fabrication **parties** are **collected**. The responses related to the **collected information** are communicated to an appropriate user **parties** and the agreements between the **parties** for offer made are negotiated.

USE - For supplying raw materials to **manufacturer** of computer-room air conditioner in industrial application.

ADVANTAGE - Enables both **manufacturers** and consumers to reduce the cost of doing business by reducing the amount of **scrap** generated.

pp; 5 DwgNo 0/0

Title Terms: RAW; MATERIAL; SUPPLY; METHOD; INDUSTRIAL; APPLY; COMMUNICATE; RESPOND; RELATED; **COLLECT**; **INFORMATION**; MATERIAL; **SIZE**; THICK;



AVAILABLE; FABRICATE; PARTY; USER; PARTY  
 Derwent Class: T01  
 International Patent Class (Main): **G06F-017/60**  
 File Segment: EPI

**10/5/17 (Item 17 from file: 350)**  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2006 Thomson Derwent. All rts. reserv.

015180987 \*\*Image available\*\*  
 WPI Acc No: 2003-241518/200324  
 XRPX Acc No: N03-192301

**Production planning for manufacture of products, has manufacturer network linked to production plan system and stock database constructed according to client product request for latest product manufacture and exportation conditions**

Patent Assignee: INVENTEC CORP (INVE-N); SHIH S (SHIH-I)  
 Inventor: SHAN-FA S; SHIH S; FA S  
 Number of Countries: 002 Number of Patents: 003  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2379301	A	20030305	GB 200121421	A	20010904	200324 B
US 20030046262	A1	20030306	US 2001944130	A	20010904	200327 N
US 6714947	B2	20040330	US 2001944130	A	20010904	200423 N

Priority Applications (No Type Date): GB 200121421 A 20010904; US 2001944130 A 20010904

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2379301	A		31	G06F-017/60	
US 20030046262	A1			G06F-007/00	
US 6714947	B2			G06F-017/30	

Abstract (Basic): GB 2379301 A

NOVELTY - The method for making the production plan is used for connecting a **manufacturer** to the system for making a production plan through a network, where the system constructs a production plan according to a product request from a client for allowing the **manufacturer** to **gather** latest conditions in product manufacture and exportation, and includes a stock database for storing **raw material data**, a request database for storing **data** relating to the product request from the client, a production plan database for storing **data** relating to the production plan, and an export database for storing **data** relating to the product exportation.

DETAILED DESCRIPTION - AN INDEPENDENT CLAIM is also included for a system for making a production plan.

USE - Real time production planning and management for the manufacture of products such as computer peripheral devices including hard disks, CD-ROM's, motherboards and CPU's.

ADVANTAGE - Provides an optimal logistic system for stocking and exporting manufactured products, product controlling and management that is easily implemented. Also provides effective monitoring of the production process and control of product exportation, so as to allow sale, purchase and manufacture departments to realize **information** relating to the production process and accordingly improve the production process.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of a real time production plan system architecture.

pp; 31 DwgNo 1/4

Title Terms: PRODUCE; PLAN; MANUFACTURE; PRODUCT; MANUFACTURE; NETWORK;  
LINK; PRODUCE; PLAN; SYSTEM; STOCK; DATABASE; CONSTRUCTION; ACCORD;  
CLIENT; PRODUCT; REQUEST; LATE; PRODUCT; MANUFACTURE; CONDITION  
Derwent Class: T01  
International Patent Class (Main): G06F-007/00; G06F-017/30; **G06F-017/60**  
File Segment: EPI

**10/5/18 (Item 18 from file: 350)**

DIALOG(R)File 350:Derwent WPIX  
(c) 2006 Thomson Derwent. All rts. reserv.

014907817 \*\*Image available\*\*  
WPI Acc No: 2002-728523/200279  
XRPX Acc No: N02-574832

**Electronic commerce system identifies whether raw material data is received from supplier terminal or manufacturer terminal, for controlling data reception from terminal**

Patent Assignee: NISSHIN FLOUR MILLING CO (NISS )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002269318	A	20020920	JP 200169747	A	20010313	200279 B

Priority Applications (No Type Date): JP 200169747 A 20010313

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002269318	A		11 G06F-017/60	

Abstract (Basic): JP 2002269318 A

NOVELTY - A center (18) has **information collection** unit (250) to **collect information**, from customer terminal (15), for storage in a database (282). An identification **identifies** whether **raw material data** is received from a supplier terminal (12) or **manufacturer** terminal (14), for controlling **data** reception from the terminals.

USE - Electronic commerce system.

ADVANTAGE - The system is managed reliably and effectively.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the electronic commerce system. (Drawing includes non-English language text).

Supplier terminal (12)

**Manufacturer** terminal (14)

Customer terminal (15)

Center (18)

**Information collection** unit (250)

Database (282)

pp; 11 DwgNo 2/7

Title Terms: ELECTRONIC; SYSTEM; **IDENTIFY**; RAW; MATERIAL; **DATA**; RECEIVE  
; SUPPLY; TERMINAL; MANUFACTURE; TERMINAL; CONTROL; **DATA**; RECEPTION;  
TERMINAL

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

File Segment: EPI

**10/5/19 (Item 19 from file: 350)**

DIALOG(R)File 350:Derwent WPIX  
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014492676 \*\*Image available\*\*

WPI Acc No: 2002-313379/200235

XRPX Acc No: N02-246009

**On-line health food selling system allows user to specify his/her choice of combination for raw materials of health food, based on which health food is compounded**

Patent Assignee: MORIKAWA H (MORI-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002092397	A	20020329	JP 2000326219	A	20000919	200235 B

Priority Applications (No Type Date): JP 2000326219 A 20000919

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2002092397 A 7 G06F-017/60

Abstract (Basic): JP 2002092397 A

NOVELTY - A **manufacturer** 's purchase order and planning form specifies the raw materials compounding a specific health food, so that user can specify his/her choice of combination for the raw materials. The **manufacturer** compounds the health food according to the **information** in the order and ships the food to the destination designated by the user.

USE - On-line health food selling system.

ADVANTAGE - Enables user to **obtain** health food of required **raw material** combination easily and thus ensures proper nutrition for users.

DESCRIPTION OF DRAWING(S) - The figure shows an example of purchase order and planning form. (Drawing includes non-English language text).  
pp; 7 DwgNo 1/2

Title Terms: LINE; HEALTH; FOOD; SELL; SYSTEM; ALLOW; USER; SPECIFIED;  
CHOICE; COMBINATION; RAW; MATERIAL; HEALTH; FOOD; BASED; HEALTH; FOOD;  
COMPOUND

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

10/5/20 (Item 20 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014428803 \*\*Image available\*\*

WPI Acc No: 2002-249506/200230

XRPX Acc No: N02-193907

**Online architecture database management system for house construction, stores architecture information of each company collectively in a database**

Patent Assignee: I NET GROUP KK (INET-N); ZHAO Z C (ZHAO-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002056054	A	20020220	JP 2000274149	A	20000807	200230 B

Priority Applications (No Type Date): JP 2000274149 A 20000807

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2002056054 A 12 G06F-017/60

Abstract (Basic): JP 2002056054 A

NOVELTY - A database (14) stores **data** such as record of building materials, **raw material**, construction method, client, construction cost, time sequential **information** about the processes of architecture such as production of architectural plan, construction log from architecture information registration unit (10). Architecture **information** of each **company** are stored collectively in a database for online access by the user.

USE - For online registration, search, management of architecture **information** for house construction.

ADVANTAGE - Enables requisition of purchase order, quotation for architecture work. Enables investigation, solving of problem with respect to constructed house, easily.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of **information** communication system for house construction. (Drawing includes non-English language text).

Architecture **information** registration unit (10)

Database (14)

pp; 12 DwgNo 1/5

Title Terms: ARCHITECTURE; DATABASE; MANAGEMENT; SYSTEM; HOUSE;

CONSTRUCTION; STORAGE; ARCHITECTURE; **INFORMATION**; **COMPANY**; **COLLECT**; DATABASE

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

International Patent Class (Additional): G06F-017/30; G06F-017/50

File Segment: EPI

**10/5/21 (Item 21 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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014279803 \*\*Image available\*\*

WPI Acc No: 2002-100504/200214

XRPX Acc No: N02-074357

**Internet based goods information sharing system stores data for determining specific combination of orderer, seller based on variety of goods information**

Patent Assignee: MITSUI BUSSAN KK (MITA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001290985	A	20011019	JP 2000106158	A	20000407	200214 B

Priority Applications (No Type Date): JP 2000106158 A 20000407

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001290985	A		11	G06F-017/60	

Abstract (Basic): JP 2001290985 A

NOVELTY - Memories respectively store **data** for determining specific combination of orderer, seller for sharing goods related **information** based on variety of goods **information**, and **information obtained** from each attendant. The attendants utilize **information**, based on **data** stored in the memories.

USE - For sharing **information** regarding production and sale of goods between orderer, seller, warehousemen, **raw - material manufacturer**, processor through Internet.

ADVANTAGE - Enables effective exchange of goods **information** between order, seller, etc., in a short time.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of an Internet based goods **information** sharing system. (Drawing includes non-English language text).

pp; 11 DwgNo 1/11

Title Terms: BASED; GOODS; **INFORMATION** ; SHARE; SYSTEM; STORAGE; **DATA** ; DETERMINE; SPECIFIC; COMBINATION; BASED; VARIETY; GOODS; **INFORMATION**

Derwent Class: Q35; T01; T06

International Patent Class (Main): **G06F-017/60**

International Patent Class (Additional): B65G-001/137; G05B-019/418

File Segment: EPI; EngPI

**10/5/22 (Item 22 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

014062480 \*\*Image available\*\*

WPI Acc No: 2001-546693/200161

XRPX Acc No: N01-406729

**Common purchasing simplification system computes total amount of raw material required for each production unit from goods ordered data and stores calculated value in memory**

Patent Assignee: NIPPON SYSTEM ACAD KK (NISY-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001216385	A	20010810	JP 200024950	A	20000202	200161 B

Priority Applications (No Type Date): JP 200024950 A 20000202

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001216385	A		5	G06F-017/60	

Abstract (Basic): JP 2001216385 A

NOVELTY - A seller (1) sends goods order having specifications about **manufacturer** (6) from whom raw materials have to be purchased, brand name of **raw material** and quantity of **raw material** to host computer. The host computer computes total amount of raw materials needed for each production unit from content of goods order and stores calculated value in memory and transmits order **data** to producer (3).

USE - Common purchasing simplification system.

ADVANTAGE - Cost reduction is achieved and accuracy of **information** transmission is **obtained** . Inventory control is reduced and large space required inventory becomes unnecessary.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of common purchasing simplification system.

Seller (1)

Producer (3)

**Manufacturer** (6)

pp; 5 DwgNo 1/2

Title Terms: COMMON; PURCHASE; SIMPLIFY; SYSTEM; COMPUTATION; TOTAL; AMOUNT ; RAW; MATERIAL; REQUIRE; PRODUCE; UNIT; GOODS; ORDER; **DATA** ; STORAGE; CALCULATE; VALUE; MEMORY

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

International Patent Class (Additional): G06F-019/00

File Segment: EPI

**10/5/23 (Item 23 from file: 347)**

DIALOG(R)File 347:JAPIO  
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08474001   \*\*Image available\*\*  
IN-TRAIN NETWORK CONNECTION SERVICE OPERATION METHOD, COMMUNICATION SYSTEM  
USING THE METHOD, AND SERVICE OPERATION SYSTEM

PUB. NO.:       2005-222261 [JP 2005222261 A]  
PUBLISHED:     August 18, 2005 (20050818)  
INVENTOR(s):   MAEDA KYOJI  
APPLICANT(s):  NEC CORP  
APPL. NO.:     2004-028737 [JP 200428737]  
FILED:         February 05, 2004 (20040205)  
INTL CLASS:     **G06F**-017/60 ; H04Q-007/38

## ABSTRACT

PROBLEM TO BE SOLVED: To provide a method performing the transfer of money according to use results when establishing connection to a plurality of network providers and providing stable internet connection service in a train.

SOLUTION: This service operation system 11 has: an issuing function of a date designated from a service user, the train, an ID **usable** in a **section**, and a password; a function authenticating the ID and the password, and starting the service to a passenger; a function stopping the service when the password expires; a function **collecting** an operation schedule or the like of the train from an operation **information** management system 13 possessed by a railroad **company**; a function **collecting** use results (a communication amount) of a line used when providing the service to the passenger, from a train side connection device; a function paying a charge based on the use results; and a function charging and receiving the charge **collected** by a charge **collection** system 12.

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10/5/24       (Item 24 from file: 347)  
DIALOG(R)File 347:JAPIO  
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08386683   \*\*Image available\*\*  
SYSTEM FOR CALCULATING DISCHARGE AMOUNT OF CHEMICAL SUBSTANCE

PUB. NO.:       2005-134943 [JP 2005134943 A]  
PUBLISHED:     May 26, 2005 (20050526)  
INVENTOR(s):   NINOMIYA MOTOYUKI  
                 MIYAGAWA KATSUHIKO  
                 KAWAMURA HIDEYUKI  
APPLICANT(s):  HITACHI LTD  
APPL. NO.:     2003-366761 [JP 2003366761]  
FILED:         October 28, 2003 (20031028)  
INTL CLASS:     **G06F**-017/60

## ABSTRACT

PROBLEM TO BE SOLVED: To facilitate registration of product **information** manufactured by a **raw material manufacturer** or a **manufacturer** of equipment being used in a treatment process into a database of a substance

constituent table or an equipment property table.

SOLUTION: The system includes a substance constituent table 203 storing component **information** of the substance constituting materials input to the treatment process; and an equipment property table 204 in regard to the equipment used in the treatment process, storing the relation between the materials being input to the equipment and the ratio of an amount of discharge/transfer of the chemical substances discharged from the equipment concerned for each discharge/transfer destination; and means 206, 207, 208 for calculating the amount of discharge/transfer of the chemical substances for each discharge/transfer destination after **obtaining** from a user 103 the equipment **information** (processing procedure) used in the treatment process and the **information** of the input material. To the user 103, the content of the substance constituent table and the content of the equipment property table are not disclosed, and only the calculation result of the amount of discharge/transfer is disclosed.

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10/5/25 (Item 25 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07990131 \*\*Image available\*\*

**INFORMATION** PROCESSING SYSTEM FOR SCHEDULING PROCUREMENT OF **RAW MATERIAL** FROM A PLURALITY OF **COMPANIES**

PUB. NO.: 2004-102890 [JP 2004102890 A]  
PUBLISHED: April 02, 2004 (20040402)  
INVENTOR(s): MORISHIMA HARUTAKA  
INAZUMI KOJI  
SAIJO KAZUHIKO  
MORITA MASAYOSHI  
APPLICANT(s): LION CORP  
APPL. NO.: 2002-266785 [JP 2002266785]  
FILED: September 12, 2002 (20020912)  
INTL CLASS: G05B-019/418; **G06F-017/60**

#### ABSTRACT

PROBLEM TO BE SOLVED: To efficiently procure **raw material** of a specified amount such as lots which is determined by the unit of sale and transportation means and allow the actual result of the procured amount of the **raw material** from a plurality of procured **companies** based on a short term plan to meet the requirement of a long term plan.

SOLUTION: Procured **company data** is allocated to a scheduled procurement date based on the distribution ratio for the plurality of procured **companies** based on the long term plan and procured **company** allocation conditions specifying the allocation order of the procured **companies**. Based on the carry-over stock amount of the **raw material**, working lead time, storable upper limit amount, scheduled use amount on business days, procured **companies**, and lot unit procured amount determined between production departments, a processing in which the scheduled procurement date is carried over and a processing in which the scheduled procurement date is pushed ahead according to conditions are repeated. In the period of the plan, the scheduled procurement date is allocated so that a predicted stock amount **obtained** as a stock amount at the end of business or in holiday is over the stock lower limit amount and below the storable upper

limit amount and the scheduled procurement date does not overlap the holiday.

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**10/5/26 (Item 26 from file: 347)**

DIALOG(R)File 347:JAPIO

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07739764 \*\*Image available\*\*

RECYCLING PLAN PREPARATION SYSTEM FOR CONSTRUCTION WASTE

PUB. NO.: 2003-233666 [JP 2003233666 A]

PUBLISHED: August 22, 2003 (20030822)

INVENTOR(s): KATAUE KIMITO

OKADA KOICHI

KUROSAWA FUMIO

ECHIGO JUNICHI

MATSUNAGA HIROTAKA

NISHITANI TAKASHI

KONO TATSUHIKO

APPLICANT(s): EG CORPORATION KK

APPL. NO.: 2002-033187 [JP 200233187]

FILED: February 08, 2002 (20020208)

INTL CLASS: **G06F-017/60** ; B09B-005/00

ABSTRACT

PROBLEM TO BE SOLVED: To provide a system which can realize a market in which a **raw material** can be constantly supplied to **manufacturers** who produce recycled products such as recycled concrete, and purchasers can also stably acquire recycled products having quality and a price they want.

SOLUTION: A market comprising unspecified number of clients who want to discard construction wastes, recycled product **manufacturers**, and purchasers who want to acquire recycled products is formed by **collecting** a wide range of **information** using the Internet or the like. The recycling plan preparation system for construction wastes such as discarded concrete lumps for the market comprises an **information** database about the clients who want to discard construction wastes, an **information** database about the recycled product **manufacturers**, and an **information** database about the purchasers who want to acquire recycled products.

COPYRIGHT: (C)2003,JPO

**10/5/27 (Item 27 from file: 347)**

DIALOG(R)File 347:JAPIO

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07264416 \*\*Image available\*\*

ITINERARY CREATING DEVICE, TRAVEL ARRANGEMENT SYSTEM, AND STORAGE MEDIUM

PUB. NO.: 2002-132877 [JP 2002132877 A]

PUBLISHED: May 10, 2002 (20020510)

INVENTOR(s): ITO KAZUTOSHI

APPLICANT(s): ITO KAZUTOSHI

APPL. NO.: 2000-327106 [JP 2000327106]

FILED: October 26, 2000 (20001026)



INTL CLASS: **G06F-017/60**

## ABSTRACT

PROBLEM TO BE SOLVED: To provide an itinerary creating device which can freely and easily create an itinerary according to the fullness states of respective parts parts, and to provide a travel arrangement system including the itinerary generating device, and a storage medium for actualizing the itinerary creating device.

SOLUTION: When a customer inputs a destination, etc., to his or her own personal computer, a basic itinerary shown in Fig. 6 is displayed. In this itinerary, the parts parts constituting a travel of each day are displayed together with **raw material companies** (not illustrated) used for the parts parts and fullness **information obtained** through a network such as the Internet is also displayed as '&cir;', '?', etc. The **raw material company** can be changed by clicking on a parts number with a mouse. Then fullness **information** and fee **information obtained** from the **raw material company** after the change are displayed in a reservation field and a total fee field.

COPYRIGHT: (C)2002,JPO

10/5/28 (Item 28 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2006 JPO & JAPIO. All rts. reserv.

07110476 \*\*Image available\*\*  
RECYCLING SYSTEM FOR RECYCLABLE WASTE

PUB. NO.: 2001-338143 [JP 2001338143 A]  
PUBLISHED: December 07, 2001 (20011207)  
INVENTOR(s): YAMANAKA RIICHI  
APPLICANT(s): NIHON GREENPACKS CO LTD  
APPL. NO.: 2000-155055 [JP 2000155055]  
FILED: May 25, 2000 (20000525)  
INTL CLASS: **G06F-017/60** ; B09B-005/00

## ABSTRACT

PROBLEM TO BE SOLVED: To construct a system to smoothly proceed with processings of waste plastics and paper waste at a state that each of a waste discharger, a **collecting** and carrying agency, a materialization **company** and a recycling and commercialization **company** takes responsibility not by leaving out recyclable waste but by asking for the processing to the **collecting** and carrying agency, the materialization **company**, the recycling and commercialization **company** by the waste discharger as well.

SOLUTION: Expenses and profits to be generated among the waste discharger A, the **collecting** and carrying agency B, the materialization **company** C and the recycling and commercialization **company** D are set off in the system among the **companies** by establishing a rule that the waste discharger A to discharge the recyclable waste E, the **collecting** and carrying agency B to **collect** and carry the recyclable waste E, a materializing **company** C to materialize the **collected** and carried recyclable waste E and the recycling and commercialization **company** D to manufacture a recycled product F from a **raw material** H manufactured by the materializing **company** C are linked in order on an **information** network and the total quantity of the recycled product F generated by the

EIC 3600

Dialog Search

discharger A and manufactured from the recyclable waste E is received and purchased by the discharger A.

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Set	Items	Description
S1	3698220	COLLECT??? OR GATHER??? OR AMASS??? OR ACCUMULAT??? OR OBT- AIN??? OR FIND??? OR IDENTIFY??? OR IDENTIF???
S2	4724398	INFORMATION OR DATA OR SIZE OR SIZES OR THICKNESS? OR GAGE
S3	260463	RAW() MATERIAL OR SCRAP OR (BLANK OR UNUSED OR USABLE OR RE- MAINING OR AVAILABLE OR LEFT() OVER OR UNCUT OR UNPUNCH? OR UN- ( ) (CUT OR PUNCH? OR SHEAR?)) (2N) (METAL OR MATERIAL? OR SECTIO- N? OR SPACE OR PIECE?)
S4	58355	FABRICATOR? OR MANUFACTURER? OR METALWORK? OR COMPAN??? OR PARTIES
S5	7857469	MATCH??? OR (MAK??? OR MADE) ( ) (AVAILABLE OR ACCESSIBLE) OR COMMUNICATE OR COMMUNICATED OR COMMUNICATING OR PROVID???
S6	1070178	S1 AND S2
S7	13742	S6 AND S3
S8	32324	S4 AND S5
S9	35	S7 AND S8
S10	12	S9 AND IC=G06F-017/60
S11	12	IDPAT (sorted in duplicate/non-duplicate order)
S12	12	IDPAT (primary/non-duplicate records only)

File 350:Derwent WPIX 1963-2006/UD,UM &UP=200620  
(c) 2006 Thomson Derwent

File 344:Chinese Patents Abs Jan 1985-2006/Jan  
(c) 2006 European Patent Office

File 347:JAPIO Nov 1976-2005/Nov(Updated 060302)  
(c) 2006 JPO & JAPIO

12/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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017372238 \*\*Image available\*\*  
WPI Acc No: 2005-695887/200572  
XRPX Acc No: N05-570946

**Profit-and-loss managed information presentation method in steel industry, involves retrieving profit-and-loss plan value from database using form code provided for each bundle of raw material of specific size**

Patent Assignee: KAWASAKI STEEL CORP (KAWI )

Inventor: KURUSHIMA K

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2005284698	A	20051013	JP 200497438	A	20040330	200572 B

Priority Applications (No Type Date): JP 200497438 A 20040330

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2005284698	A		32	G06F-017/60	

Abstract (Basic): JP 2005284698 A

NOVELTY - The **raw material** bundled according to the specification **size**, is **provided** with a form code so that the profit-and-loss plan value is calculated according to the sales processed using the form code. The profit-and-loss plan value are stored in database. The plan value is retrieved from the database using the code, for presenting the profit-and-loss managed **information**.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) profit-and-loss managed **information** presentation apparatus;
- (2) profit-and-loss management method; and
- (3) profit-and-loss management processing program.

USE - For presenting profit-and-loss managed **information** in sales production planning support system of **company** such as steel industry.

ADVANTAGE - The appropriate profit-and-loss **data** of each goods is **obtained** reliably.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the **company** sector response system. (Drawing includes non-English language text).

- sales-production planning support system (1)
  - sales plan support system (2)
  - profit-and-loss management system (3)
  - sales performance management system (4)
  - order entry system (5)
- pp; 32 DwgNo 5/20

Title Terms: PROFIT; LOSS; **INFORMATION** ; PRESENT; METHOD; STEEL;  
INDUSTRIAL; RETRIEVAL; PROFIT; LOSS; PLAN; VALUE; DATABASE; FORM; CODE;  
BUNDLE; RAW; MATERIAL; SPECIFIC; **SIZE**

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

File Segment: EPI

12/5/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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016787117      \*\*Image available\*\*

WPI Acc No: 2005-111393/200512

XRPX Acc No: N05-096253

Raw material , land use input and non-product output determining method for management decision making in e.g. industry, involves obtaining materials inventory and land for product production of product or delivery of service

Patent Assignee: BEAVER E R (BEAV-I)

Inventor: BEAVER E R

Number of Countries: 001    Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050015287	A1	20050120	US 2003472641	P	20030522	200512 B
			US 2003485940	P	20030709	
			US 2004852379	A	20040524	

Priority Applications (No Type Date): US 2004852379 A 20040524; US

2003472641 P 20030522; US 2003485940 P 20030709

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20050015287	A1	15	G06F-017/60	Provisional application US 2003472641

Provisional application US 2003485940

Abstract (Basic): US 20050015287 A1

NOVELTY - The method involves **obtaining** an inventory of raw materials and land necessary for production of a product or delivery of a service. Non-product outputs of the production or delivery are quantified. The **raw material** inputs and non-product outputs are numerical values that are converted into common units. The numerical values are compared in terms of their negative impacts or their benefits.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(A) a method for determining estimate of the benefits and costs for a product to be manufactured or a service rendered

(B) a method for **identifying** , assessing, and optimizing future impacts of research and development decisions on a technology

(C) a method for comparing estimated non-traditional costs with a service to be **provided**

(D) a graphic user interface software for visual representation of computed metrics and costs

(E) a method for utilizing government databases to calculate benchmark metrics and

(F) a method for representing the sustainability of a process, facility, project alternative, business or a **company** which is understandable to the non-expert.

USE - Used for determining **raw material** , land use input and non-product output for management decision making by incorporating sustainability metrics e.g. material use, water use, energy use, toxics emitted, land use and overall pollutants emitted, complementary metrics e.g. greenhouse gas, eutrophication material, acidification material, ozone creating or depleting material, and total cost and benefit analysis e.g. net present value of costs of unrealized environmental impact, including toxicity to plant and animal, depletion of natural resource and benefit to society of use of resource, such as land and **raw material** , in industry, government and education.

ADVANTAGE - The method simplifies the integration of **data** from a diverse set of sources for environmental costs and societal benefit **data** . The output of the calculations directly and easily integrates

with the business practices of an industrial enterprise and decision planning.

DESCRIPTION OF DRAWING(S) - The drawing shows boundaries for metrics calculation.

pp; 15 DwgNo 3/5

Title Terms: RAW; MATERIAL; LAND; INPUT; NON; PRODUCT; OUTPUT; DETERMINE; METHOD; MANAGEMENT; DECIDE; INDUSTRIAL; **OBTAIN** ; MATERIAL; INVENTORY; LAND; PRODUCT; PRODUCE; PRODUCT; DELIVER; SERVICE

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

File Segment: EPI

**12/5/3 (Item 3 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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016340491 \*\*Image available\*\*

WPI Acc No: 2004-498388/200447

XRPX Acc No: N04-393639

**Work scheduling and material delivery method for information handling system, involves generating and executing material request plan for producing item based on inventory current state**

Patent Assignee: BEEBE M D (BEEB-I); CASTLE M S (CAST-I); JONES K T (JONE-I); MARRS J A (MARR-I)

Inventor: BEEBE M D; CASTLE M S; JONES K T; MARRS J A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040117230	A1	20040617	US 2002320889	A	20021216	200447 B

Priority Applications (No Type Date): US 2002320889 A 20021216

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20040117230	A1	16	G06F-017/60	

Abstract (Basic): US 20040117230 A1

NOVELTY - The current state of an **available** inventory of **material** is determined from several material sources based on customer order including an item ordered by the customer (250) such as individual or business entity. A material request plan for producing the item is generated based on the inventory current state. The plan including netting deliveries of material with planned request for material is executed.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) system for scheduling work and delivery of material for items in factory; and

(2) an apparatus for scheduling work and delivery of material for items in factory.

USE - For scheduling of work and delivery of material for items or products such as **information** handling system including any instrumentality or aggregate of instrumentalities operable to compute, classify, process, transmit, receive, retrieve, originate, switch, store, display, manifest, detect, record, reproduce, handle or utilize any form of **information**, intelligence or **data** for business, scientific, control or other purposes especially personal computer, printer, processor, monitor, network storage device including RAM, one or more processing resources such as CPU or hardware or software control logic, ROM or other types of non-volatile memory, disk drives,

network ports for **communicating** with external devices as well as input/output devices such as keyboard, mouse and video display, in factory or product manufacture line.

ADVANTAGE - Allows delivery overages to be addressed so that the overages do not **accumulate** across planning cycles.

DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram of supply chain for **manufacturer** having several factories.

factories (240A-240C)

manufacturing lines (242A-242D)

customer (250)

pp; 16 DwgNo 2/6

Title Terms: WORK; SCHEDULE; MATERIAL; DELIVER; METHOD; **INFORMATION** ;

HANDLE; SYSTEM; GENERATE; EXECUTE; MATERIAL; REQUEST; PLAN; PRODUCE; ITEM ; BASED; INVENTORY; CURRENT; STATE

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

File Segment: EPI

**12/5/4 (Item 4 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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015448832

WPI Acc No: 2003-510974/200348

**Method for processing food based on Internet**

Patent Assignee: JUNG S Y (JUNG-I); KWON S C (KWON-I)

Inventor: JUNG S Y; KWON S C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2003010021	A	20030205	KR 200144755	A	20010725	200348 B

Priority Applications (No Type Date): KR 200144755 A 20010725

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2003010021	A		1 G06F-017/60	

Abstract (Basic): KR 2003010021 A

NOVELTY - A food processing method is **provided** to open an ordered food processing status to a customer and to optimize a food supply time limit so that it can enhance a reliability of the food and reduce a cost of a stock management.

DETAILED DESCRIPTION - The method comprises several steps. A client accesses an operation server over the Internet, inputs personal **data**, and orders a processed food(S10). The server **collects** the orders from the clients, and prepares for a process of the food(S20). **Raw material** is put into a vessel, and the bar code adhered to the vessel is read by a bar code reader before the vessel is entered into a food processing plant(S30). A sample is extracted and tested by a food test institute, for example, for testing a gene manipulation or a residue of agricultural chemicals, and a test result is transmitted to the client and the operation server(S40). If there is no problem in the **raw material**, a food processing step is started(S50). After the food processing is finished, a sample is extracted, being submitted to and being tested by a nutrition analysis institute, and its test result being offered to the client(S60). The processed food is packaged and delivered to the client via a delivery **company** (S70).

pp; 1 DwgNo 0/10

Title Terms: METHOD; PROCESS; FOOD; BASED

Derwent Class: T01  
International Patent Class (Main): **G06F-017/60**  
File Segment: EPI

**12/5/5 (Item 5 from file: 350)**  
DIALOG(R)File 350:Derwent WPIX  
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015305009 \*\*Image available\*\*  
WPI Acc No: 2003-365943/200335  
XRPX Acc No: N03-292267

**Optimal ordering intermediary system for container makers, generates optimal production plan based on order received from retail stores and provides generated plan along with order information to manufacturing company**

Patent Assignee: TOYO SEIKAN KAISHA LTD (TOXO )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002183485	A	20020628	JP 2000377059	A	20001212	200335 B

Priority Applications (No Type Date): JP 2000377059 A 20001212  
Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
JP 2002183485 A 11 G06F-017/60

Abstract (Basic): JP 2002183485 A

NOVELTY - An intermediate planning unit receives order **information** from retail stores and brand owners, and generates optimal production plan based on the order **information**. The generated plan is **provided** to the orderer. The order **information** along with the optimal production plan is transmitted to the product manufacturing **company** based on the permission received from the orderer.

USE - For generating optimal production plan used by **companies** such as container makers, filling packers, **raw material** suppliers.

ADVANTAGE - Effective generation of optimal production plan is enabled based on the **information collected** from the suppliers and customers.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the optimal ordering intermediary system. (Drawing includes non-English language text).

pp; 11 DwgNo 1/1

Title Terms: OPTIMUM; ORDER; INTERMEDIARY; SYSTEM; CONTAINER; MAKER;  
GENERATE; OPTIMUM; PRODUCE; PLAN; BASED; ORDER; RECEIVE; RETAIL; STORAGE;  
GENERATE; PLAN; ORDER; **INFORMATION** ; MANUFACTURE; **COMPANY**

Derwent Class: T01  
International Patent Class (Main): **G06F-017/60**  
File Segment: EPI

**12/5/6 (Item 6 from file: 350)**  
DIALOG(R)File 350:Derwent WPIX  
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015252917 \*\*Image available\*\*  
WPI Acc No: 2003-313843/200330  
XRPX Acc No: N03-249898

**Data management system for raw material has database of raw material specifications searchable by raw material code**



Patent Assignee: KIMBERLY-CLARK WORLDWIDE INC (KIMB ); KIMBERLY-CLARK CORP (KIMB ); BERTELLO M J (BERT-I); BOYD A H (BOYD-I); FISHER T K (FISH-I); LINDSAY J D (LIND-I); MCCARTY W E (MCCA-I); PARK S J (PARK-I); PONTIUS J W (PONT-I); SAUER C L (SAUE-I)

Inventor: BERTELLO M J; BOYD A H; FISHER T K; LINDSAY J D; MCCARTY W E; PARK S J; PONTIUS J W; SAUER C L

Number of Countries: 102 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200329927	A2	20030410	WO 2002US31244	A	20020930	200330 B
US 20030069795	A1	20030410	US 2001326128	P	20010928	200340
			US 2002253200	A	20020923	
EP 1430435	A2	20040623	EP 2002800403	A	20020930	200441
			WO 2002US31244	A	20020930	
KR 2004034734	A	20040428	KR 2004703615	A	20040311	200455
AU 2002334763	A1	20030414	AU 2002334763	A	20020930	200460
MX 2004002205	A1	20040601	WO 2002US31244	A	20020930	200504
			MX 20042205	A	20040308	
JP 2005505046	W	20050217	WO 2002US31244	A	20020930	200513
			JP 2003533074	A	20020930	
CN 1554065	A	20041208	CN 2002817778	A	20020930	200517
ZA 200402012	A	20050928	ZA 20042012	A	20040312	200570

Priority Applications (No Type Date): US 2002253200 A 20020923; US 2001326128 P 20010928

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200329927 A2 E 29 G06F-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

US 20030069795 A1 G06F-017/60 Provisional application US 2001326128

EP 1430435 A2 E G06F-017/60 Based on patent WO 200329927

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

KR 2004034734 A G06F-017/60

AU 2002334763 A1 G06F-000/00 Based on patent WO 200329927

MX 2004002205 A1 G06F-000/00000 Based on patent WO 200329927

JP 2005505046 W 57 G06F-017/60 Based on patent WO 200329927

CN 1554065 A G06F-017/60

ZA 200402012 A 41 G06F-000/00

Abstract (Basic): WO 200329927 A2

NOVELTY - System comprises a **data** transfer network (Internet or intranet), a database of **raw material** specifications, a database of **raw material** property **data**, a **data** entry system with a scanner, a generator for comparing transmitted **raw material** property **data** with the material specification, and a signal generator generating a compliance signal for the **raw material**. The **data** entry system can verify the training of an operator before he is allowed access, material property codes can be displayed and a certificate of analysis is generated. Errors can be corrected and time stamping documents actions taken.

DETAILED DESCRIPTION - There is an INDEPENDENT CLAIM for a method for a **manufacturer** to **obtain** compliant **raw material**.

USE - System is for managing **data** between suppliers and

**manufacturers .**

ADVANTAGE - System improves quality control, enables suppliers to **provide information on raw material** properties and allows rapid verification of the incoming materials by the receiving **manufacturer** .

DESCRIPTION OF DRAWING(S) - The figure shows a **data** management process.

pp; 29 DwgNo 1/3

Title Terms: **DATA** ; MANAGEMENT; SYSTEM; RAW; MATERIAL; DATABASE; RAW;

MATERIAL; SPECIFICATION; SEARCH; RAW; MATERIAL; CODE

Derwent Class: T01

International Patent Class (Main): G06F-000/00; G06F-000/00000;

**G06F-017/60**

International Patent Class (Additional): G05B-019/418; G06F-007/00

File Segment: EPI

**12/5/7 (Item 7 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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015205620

WPI Acc No: 2003-266155/200326

XRPX Acc No: N03-211362

Raw material **supply method for industrial application, involves communicating responses related to collected information of materials, sizes and thicknesses available by fabrication parties to user parties**

Patent Assignee: DES CHAMPS N H (CHAM-I)

Inventor: DES CHAMPS N H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020178065	A1	20021128	US 2001864198	A	20010525	200326 B

Priority Applications (No Type Date): US 2001864198 A 20010525

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020178065	A1		5 G06F-017/60	

Abstract (Basic): US 20020178065 A1

NOVELTY - The **information on materials, sizes , and thicknesses available by the fabrication parties are collected** . The responses related to the **collected information** are **communicated** to an appropriate user **parties** and the agreements between the **parties** for offer made are negotiated.

USE - For supplying raw materials to **manufacturer** of computer-room air conditioner in industrial application.

ADVANTAGE - Enables both **manufacturers** and consumers to reduce the cost of doing business by reducing the amount of **scrap** generated.

pp; 5 DwgNo 0/0

Title Terms: RAW; MATERIAL; SUPPLY; METHOD; INDUSTRIAL; APPLY; **COMMUNICATE** ; RESPOND; RELATED; **COLLECT** ; **INFORMATION** ; MATERIAL; **SIZE** ; THICK;

AVAILABLE; FABRICATE; PARTY; USER; PARTY

Derwent Class: T01

International Patent Class (Main): **G06F-017/60**

File Segment: EPI

12/5/8 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015180987 \*\*Image available\*\*  
WPI Acc No: 2003-241518/200324  
XRPX Acc No: N03-192301

**Production planning for manufacture of products, has manufacturer network linked to production plan system and stock database constructed according to client product request for latest product manufacture and exportation conditions**

Patent Assignee: INVENTEC CORP (INVE-N); SHIH S (SHIH-I)

Inventor: SHAN-FA S; SHIH S; FA S

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2379301	A	20030305	GB 200121421	A	20010904	200324 B
US 20030046262	A1	20030306	US 2001944130	A	20010904	200327 N
US 6714947	B2	20040330	US 2001944130	A	20010904	200423 N

Priority Applications (No Type Date): GB 200121421 A 20010904; US 2001944130 A 20010904

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2379301	A		31	G06F-017/60	
US 20030046262	A1			G06F-007/00	
US 6714947	B2			G06F-017/30	

Abstract (Basic): GB 2379301 A

NOVELTY - The method for making the production plan is used for connecting a **manufacturer** to the system for making a production plan through a network, where the system constructs a production plan according to a product request from a client for allowing the **manufacturer** to **gather** latest conditions in product manufacture and exportation, and includes a stock database for storing **raw material data**, a request database for storing **data** relating to the product request from the client, a production plan database for storing **data** relating to the production plan, and an export database for storing **data** relating to the product exportation.

DETAILED DESCRIPTION - AN INDEPENDENT CLAIM is also included for a system for making a production plan.

USE - Real time production planning and management for the manufacture of products such as computer peripheral devices including hard disks, CD-ROM's, motherboards and CPU's.

ADVANTAGE - **Provides** an optimal logistic system for stocking and exporting manufactured products, product controlling and management that is easily implemented. Also **provides** effective monitoring of the production process and control of product exportation, so as to allow sale, purchase and manufacture departments to realize **information** relating to the production process and accordingly improve the production process.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of a real time production plan system architecture.

pp; 31 DwgNo 1/4

Title Terms: PRODUCE; PLAN; MANUFACTURE; PRODUCT; MANUFACTURE; NETWORK; LINK; PRODUCE; PLAN; SYSTEM; STOCK; DATABASE; CONSTRUCTION; ACCORD; CLIENT; PRODUCT; REQUEST; LATE; PRODUCT; MANUFACTURE; CONDITION

Derwent Class: T01

International Patent Class (Main): G06F-007/00; G06F-017/30; **G06F-017/60**

File Segment: EPI

12/5/9 (Item 9 from file: 347)

DIALOG(R)File 347:JAPIO

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08474001 \*\*Image available\*\*

IN-TRAIN NETWORK CONNECTION SERVICE OPERATION METHOD, COMMUNICATION SYSTEM  
USING THE METHOD, AND SERVICE OPERATION SYSTEM

PUB. NO.: 2005-222261 [JP 2005222261 A]  
PUBLISHED: August 18, 2005 (20050818)  
INVENTOR(s): MAEDA KYOJI  
APPLICANT(s): NEC CORP  
APPL. NO.: 2004-028737 [JP 200428737]  
FILED: February 05, 2004 (20040205)  
INTL CLASS: G06F-017/60 ; H04Q-007/38

ABSTRACT

PROBLEM TO BE SOLVED: To **provide** a method performing the transfer of money according to use results when establishing connection to a plurality of network **providers** and **providing** stable internet connection service in a train.

SOLUTION: This service operation system 11 has: an issuing function of a date designated from a service user, the train, an ID **usable** in a **section**, and a password; a function authenticating the ID and the password, and starting the service to a passenger; a function stopping the service when the password expires; a function **collecting** an operation schedule or the like of the train from an operation **information** management system 13 possessed by a railroad **company**; a function **collecting** use results (a communication amount) of a line used when **providing** the service to the passenger, from a train side connection device; a function paying a charge based on the use results; and a function charging and receiving the charge **collected** by a charge **collection** system 12.

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12/5/10 (Item 10 from file: 347)

DIALOG(R)File 347:JAPIO

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08434100 \*\*Image available\*\*

RECYCLING SYSTEM FOR PLASTIC

PUB. NO.: 2005-182360 [JP 2005182360 A]  
PUBLISHED: July 07, 2005 (20050707)  
INVENTOR(s): KASHIWAKURA TOSHIYUKI  
SOMA SATOSHI  
APPLICANT(s): RICOH CO LTD  
APPL. NO.: 2003-420709 [JP 2003420709]  
FILED: December 18, 2003 (20031218)  
INTL CLASS: G06F-017/60

ABSTRACT

PROBLEM TO BE SOLVED: To **provide** an extensive plastic recycling system

allowing rapid communication between all dealers related to recycling of plastic.

SOLUTION: This recycling system is **provided** with an integral control server 21 integrally controlling the system. A **collection** dealer 1c **collecting** and transporting a used plastic product, a plastic reproducer 2a decomposing, separating, and crushing the used plastic product to produce plastic **raw material**, a plastic material **manufacturer** 3a preparing reproduced plastic material, a plastic product **manufacturer** 4a manufacturing a recycling plastic product are respectively equipped with terminal devices 1, 2, 3, 4. The integral control server 21 and each the terminal device of each the dealer are connected by the Internet 5, and customer **information**, each dealer **information** used plastic product **information**, product **collection** /transport **information**, plastic **raw material information**, reproduced plastic material **information**, and recycling plastic product **information** are transferred.

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12/5/11 (Item 11 from file: 347)

DIALOG(R)File 347:JAPIO

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07739764 \*\*Image available\*\*

RECYCLING PLAN PREPARATION SYSTEM FOR CONSTRUCTION WASTE

PUB. NO.: 2003-233666 [JP 2003233666 A]

PUBLISHED: August 22, 2003 (20030822)

INVENTOR(s): KATAUE KIMITO  
OKADA KOICHI  
KUROSAWA FUMIO  
ECHIGO JUNICHI  
MATSUNAGA HIROTAKA  
NISHITANI TAKASHI  
KONO TATSUHIKO

APPLICANT(s): EG CORPORATION KK

APPL. NO.: 2002-033187 [JP 200233187]

FILED: February 08, 2002 (20020208)

INTL CLASS: **G06F-017/60** ; B09B-005/00

#### ABSTRACT

PROBLEM TO BE SOLVED: To **provide** a system which can realize a market in which a **raw material** can be constantly supplied to **manufacturers** who produce recycled products such as recycled concrete, and purchasers can also stably acquire recycled products having quality and a price they want.

SOLUTION: A market comprising unspecified number of clients who want to discard construction wastes, recycled product **manufacturers**, and purchasers who want to acquire recycled products is formed by **collecting** a wide range of **information** using the Internet or the like. The recycling plan preparation system for construction wastes such as discarded concrete lumps for the market comprises an **information** database about the clients who want to discard construction wastes, an **information** database about the recycled product **manufacturers**, and an **information** database about the purchasers who want to acquire recycled products.

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12/5/12 (Item 12 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2006 JPO & JAPIO. All rts. reserv.

07264416 \*\*Image available\*\*  
ITINERARY CREATING DEVICE, TRAVEL ARRANGEMENT SYSTEM, AND STORAGE MEDIUM

PUB. NO.: 2002-132877 [JP 2002132877 A]  
PUBLISHED: May 10, 2002 (20020510)  
INVENTOR(s): ITO KAZUTOSHI  
APPLICANT(s): ITO KAZUTOSHI  
APPL. NO.: 2000-327106 [JP 2000327106]  
FILED: October 26, 2000 (20001026)  
INTL CLASS: G06F-017/60

## ABSTRACT

PROBLEM TO BE SOLVED: To **provide** an itinerary creating device which can freely and easily create an itinerary according to the fullness states of respective parts parts, and to **provide** a travel arrangement system including the itinerary generating device, and a storage medium for actualizing the itinerary creating device.

SOLUTION: When a customer inputs a destination, etc., to his or her own personal computer, a basic itinerary shown in Fig. 6 is displayed. In this itinerary, the parts parts constituting a travel of each day are displayed together with **raw material companies** (not illustrated) used for the parts parts and fullness **information obtained** through a network such as the Internet is also displayed as '&cir;', '?', etc. The **raw material company** can be changed by clicking on a parts number with a mouse. Then fullness **information** and fee **information obtained** from the **raw material company** after the change are displayed in a reservation field and a total fee field.

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Set	Items	Description
S1	3698220	COLLECT??? OR GATHER??? OR AMASS??? OR ACCUMULAT??? OR OBT- AIN??? OR FIND??? OR IDENTIFY??? OR IDENTIF???
S2	4724398	INFORMATION OR DATA OR SIZE OR SIZES OR THICKNESS? OR GAGE
S3	260463	RAW() MATERIAL OR SCRAP OR (BLANK OR UNUSED OR USABLE OR RE- MAINING OR AVAILABLE OR LEFT() OVER OR UNCUT OR UNPUNCH? OR UN- ( ) (CUT OR PUNCH? OR SHEAR?)) (2N) (METAL OR MATERIAL? OR SECTIO- N? OR SPACE OR PIECE?)
S4	58355	FABRICATOR? OR MANUFACTURER? OR METALWORK? OR COMPAN??? OR PARTIES
S5	7857469	MATCH??? OR (MAK??? OR MADE) ( ) (AVAILABLE OR ACCESSIBLE) OR COMMUNICATE OR COMMUNICATED OR COMMUNICATING OR PROVID???
S6	1070178	S1 AND S2
S7	13742	S6 AND S3
S8	32324	S4 AND S5
S9	35	S7 AND S8
S10	12	S9 AND IC=G06F-017/60
S11	12	IDPAT (sorted in duplicate/non-duplicate order)
S12	12	IDPAT (primary/non-duplicate records only)
S13	423	(UTILIZ? OR OPTIMIZ?) (2N) (NESTING OR SKELETON OR LAYOUT?)
S14	4	S13 AND S3
S15	177	S13 AND (S3 OR S5)
S16	2	S15 AND S4
S17	7	S15 AND IC=G06F-017/60

File 350:Derwent WPIX 1963-2006/UD,UM &UP=200620  
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File 344:Chinese Patents Abs Jan 1985-2006/Jan  
(c) 2006 European Patent Office

File 347:JAPIO Nov 1976-2005/Nov(Updated 060302)  
(c) 2006 JPO & JAPIO

17/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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017314514 \*\*Image available\*\*

WPI Acc No: 2005-638147/200565

Related WPI Acc No: 2005-629127; 2005-629129; 2005-638082; 2005-638083;  
2005-638084; 2005-638102; 2005-638106; 2005-638107; 2005-638108;  
2005-638109; 2005-638112; 2005-638113; 2005-638121; 2005-638122;  
2005-638123; 2005-638124; 2005-638125; 2005-638126; 2005-638127;  
2005-638132; 2005-638133; 2005-638134; 2005-638135; 2005-638136;  
2005-638137; 2005-638140; 2005-638143; 2005-638158; 2005-638163;  
2005-638178; 2005-638179; 2005-657006; 2005-657010; 2005-657013;  
2005-675181; 2005-675497; 2005-683205; 2005-683207; 2005-683218;  
2005-683220; 2005-683225; 2005-689108; 2005-745524; 2005-756371;  
2005-766190; 2005-766998; 2005-767743; 2005-785142; 2005-808858;  
2006-009500; 2006-133410

XRPX Acc No: N05-523397

**Product layout determination method for group of stores, involves  
inputting optimized layout module information into layout module  
version that represents product layout for group of stores for time  
period**

Patent Assignee: SAP AG (SAPS-N)

Inventor: BUSCH H; FOTTELER C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050197928	A1	20050908	US 2004551221	P	20040308	200565 B
			US 2004563284	P	20040416	
			US 200528485	A	20050103	

Priority Applications (No Type Date): US 200528485 A 20050103; US  
2004551221 P 20040308; US 2004563284 P 20040416

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20050197928	A1		31	G06F-017/60	Provisional application US 2004551221

Provisional application US 2004563284

Abstract (Basic): US 20050197928 A1

NOVELTY - A layout module representing a display area of the stores is assigned to the assortment defined as group of stores and a layout module version that represents a product layout for group of stores for time period is defined. The layout module information is **provided** to a shelf optimization program to receive the **optimized layout** module information which is then input into the layout module version.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) product layout determination system; and
- (2) program product for product layout determination.

USE - For determining product layout for group of stores, in large retail company, using network computing device such as personal computer, microprocessor-based or programmable consumer electronics, network personal computer, multiprocessor system, minicomputer, mainframe computer and handheld device.

ADVANTAGE - Performs efficient display of products at stores based on assorted planning decisions and capacity planning decisions.

DESCRIPTION OF DRAWING(S) - The figure shows an explanatory view of the large retail company.

pp; 31 DwgNo 1/17

Title Terms: PRODUCT; LAYOUT; DETERMINE; METHOD; GROUP; STORAGE; INPUT;



OPTIMUM; LAYOUT; MODULE; INFORMATION; LAYOUT; MODULE; VERSION; REPRESENT;  
PRODUCT; LAYOUT; GROUP; STORAGE; TIME; PERIOD  
Derwent Class: T01  
International Patent Class (Main): G06F-017/60  
File Segment: EPI

**17/5/2 (Item 2 from file: 350)**

DIALOG(R)File 350:Derwent WPIX  
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016020498 \*\*Image available\*\*  
WPI Acc No: 2004-178349/200417  
XRPX Acc No: N04-141732

Optimizing layout of selected parts to be cut in e.g. lumber  
processing industry, involves selecting arrangement of subdivided surface  
section providing maximal basic yield value for inclusion in optimized  
layout of selected parts to be cut

Patent Assignee: CENT RECH IND DU QUEBEC (REIN-N)  
Inventor: CARON M; COULOMBE P  
Number of Countries: 108 Number of Patents: 004  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6690990	B1	20040210	US 2002307292	A	20021202	200417 B
WO 200451523	A1	20040617	WO 2003CA1872	A	20031202	200440
AU 2003291863	A1	20040623	AU 2003291863	A	20031202	200472
EP 1576509	A1	20050921	EP 2003767321	A	20031202	200562
			WO 2003CA1872	A	20031202	

Priority Applications (No Type Date): US 2002307292 A 20021202

**Patent Details:**

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 6690990	B1	48	G06F-019/00		
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WO 200451523	A1 E		G06F-017/60		
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ  
CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID  
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ  
NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA  
UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR  
GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR  
TZ UG ZM ZW

AU 2003291863	A1		G06F-017/60	Based on patent WO 200451523
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EP 1576509	A1 E		G06F-017/60	Based on patent WO 200451523
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Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB  
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): US 6690990 B1

NOVELTY - The method involves estimating basic corresponding yield values for one or more new arrangements of subdivided pieces. All the basic yield values are then compared with one another to select the arrangement of subdivided piece surface sections associated with the arrangement of parts providing maximal basic yield value to be included in the optimized layout of selected parts to be cut.

DETAILED DESCRIPTION - The method begins by defining a subset of a set of parts characterized by a predetermined grade value and associated with a predetermined group of first dimensions values defined with respect to a first reference axis. The data, defining arrangement of subdivided piece surface sections to be obtained through a primary cutting operation, are generated with respect to a second reference axis and according to the first dimension values. The data,

defining the subsections included in each piece surface section, are generated according to the geometric and defect-related characteristics of the piece. The data, defining for each subsection several arrangements of parts to be included and selected from the subset of parts and to be obtained through a secondary cutting operation, are generated with respect to the first reference axis. The yield values associated with the arrangements of parts are estimated, and compared with the selected arrangement of parts having the highest yield value. The basic yield value for the arrangement of subdivided piece surface sections is then estimated. The data generation, estimation and comparison steps are repeated to estimate the corresponding basic yield values for one or more new arrangement of subdivided piece surface sections.

An INDEPENDENT CLAIM is included for the recording medium storing the program instructions for product manufacturing optimization.

USE - Used in e.g. lumber processing industry, furniture

manufacture. For performing cutting optimization in manufacturing context involving e.g. paper, glass fabric, plastics, rubber.

ADVANTAGE - Allows flexibility of use while ensuring reliable production optimization results.

DESCRIPTION OF DRAWING(S) - The figure is a process flow diagram representing the main steps in **optimizing a layout** of selected parts to be cut from pieces of **raw material**.

pp; 48 DwgNo 1A/21

Title Terms: OPTIMUM; LAYOUT; SELECT; PART; CUT; LUMBER; PROCESS; INDUSTRIAL; SELECT; ARRANGE; SUBDIVIDED; SURFACE; SECTION; MAXIMUM; BASIC ; YIELD; VALUE; INCLUSION; OPTIMUM; LAYOUT; SELECT; PART; CUT

Derwent Class: P54; P63; T01

International Patent Class (Main): **G06F-017/60** ; G06F-019/00

International Patent Class (Additional): B23D-059/00; B27B-001/00;

B27G-001/00

File Segment: EPI; EngPI

**17/5/3 (Item 3 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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014517483 \*\*Image available\*\*

WPI Acc No: 2002-338186/200237

Related WPI Acc No: 2003-066589; 2003-074587; 2003-239031

XRPX Acc No: N02-265810

**Digital circuit analysis method for identifying input equivalencies of circuit layouts, involves identifying pin-swap groups by dividing digital circuit into several fanout-free regions having specific characteristics**

Patent Assignee: WALLACE D E (WALL-I)

Inventor: WALLACE D E

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020010899	A1	20020124	US 98118225	A	19980717	200237 B
US 6360352	B2	20020319	US 98118225	A	19980717	200237

Priority Applications (No Type Date): US 98118225 A 19980717

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20020010899 A1 14 G06F-017/50

US 6360352 B2 G06F-017/50

Abstract (Basic): US 20020010899 A1

NOVELTY - A digital circuit is divided into several fanout-free

regions (FFRs) with specific characteristics. A modified circuit structure is generated from the divided regions. Pin-swap groups are identified within the generated modified circuit structure.

USE - For identifying input equivalencies of digital circuit layouts through analysis to control and **optimize** the circuit **layouts** such as field programmable gate arrays (FPGAs), application specific integrated circuits (ASICs), etc.

ADVANTAGE - **Provides** improved technique for identifying input equivalencies in the digital circuits, that can be computer coded conveniently.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart explaining the digital circuit analysis method.

pp; 14 DwgNo 4/8

Title Terms: DIGITAL; CIRCUIT; ANALYSE; METHOD; IDENTIFY; INPUT; CIRCUIT; LAYOUT; IDENTIFY; PIN; GROUP; DIVIDE; DIGITAL; CIRCUIT; FREE; REGION; SPECIFIC; CHARACTERISTIC

Derwent Class: T01; U11; U13

International Patent Class (Main): G06F-017/50

International Patent Class (Additional): **G06F-017/60**

File Segment: EPI

**17/5/4 (Item 4 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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012584896 \*\*Image available\*\*

WPI Acc No: 1999-391003/199933

XRFX Acc No: N99-293396

**Purchasing goods selection system in stores - has bar code reader at input terminal end, which when operated, transmits bar code of derived goods to host computer which controls warehouse system accounts settlement terminal**

Patent Assignee: NIPPON DENKI ENG KK (NIDE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11154277	A	19990608	JP 97319878	A	19971120	199933 B

Priority Applications (No Type Date): JP 97319878 A 19971120

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11154277	A	11	G07G-001/12	

Abstract (Basic): JP 11154277 A

NOVELTY - A bar code reader is **provided** at the end of the input terminal. A customer enters a store and operates an input terminal (1). The bar code reader transmits the bar code of desired goods to be purchased, to a host computer (2). The host computer controls a warehouse system (3) and an accounts settlement terminal (4).

USE - In stores for purchasing desired goods by operating input terminal.

ADVANTAGE - Desired goods can be easily purchased in short time, by simply operating the input terminal. Detailed information about the action of the customer inside the store is obtained, which can be **utilized** for the **layout** of the store. DESCRIPTION OF DRAWING(S) - The figure shows block diagram of the purchasing goods selection system. (1) Input terminal; (2) Host computer; (3) Warehouse system; (4) Accounts settlement terminal.

Dwg.1/11

Title Terms: PURCHASE; GOODS; SELECT; SYSTEM; STORAGE; BAR; CODE; READ;  
INPUT; TERMINAL; END; OPERATE; TRANSMIT; BAR; CODE; DERIVATIVE; GOODS;  
HOST; COMPUTER; CONTROL; WAREHOUSE; SYSTEM; ACCOUNT; SETTLE; TERMINAL  
Derwent Class: Q35; T01; T05  
International Patent Class (Main): G07G-001/12  
International Patent Class (Additional): B65G-001/137; **G06F-017/60** ;  
G07F-007/08; G07G-001/00; G07G-001/14  
File Segment: EPI; EngPI

**17/5/5 (Item 1 from file: 347)**

DIALOG(R)File 347:JAPIO

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07431636 \*\*Image available\*\*

DIGITAL CONTENTS **PROVIDING** SYSTEM, DIGITAL CONTENTS **PROVIDING** METHOD,  
SERVER UNIT AND DIGITAL CONTENTS **PROVIDING** PROGRAM

PUB. NO.: 2002-300146 [JP 2002300146 A]  
PUBLISHED: October 11, 2002 (20021011)  
INVENTOR(s): HIRABAYASHI SHINJI  
APPLICANT(s): SEIKO EPSON CORP  
APPL. NO.: 2001-094735 [JP 200194735]  
FILED: March 29, 2001 (20010329)  
INTL CLASS: H04L-009/08; G06F-003/12; **G06F-017/60**

## ABSTRACT

PROBLEM TO BE SOLVED: To **provide** a digital contents **providing** system that can permit only a print **utilizing layout** information filed in a server unit for a user terminal.

SOLUTION: An editor server 36 in the server unit 1 transmits a layout image to a user PC 2. An image editor 52 in the user PC sets a layout of a print image according to the layout image and an edit instruction by a user entered by an entry device 23. When the user enters an instruction of a print start via the entry device 23, the editor server 36 transmits the layout information defining the layout of the print image to the editor server 36 at that point of time. The editor 36 files the layout information in the server unit 1, completes transmission of a main image container 42 to the user PC 2, and transmits the layout information file to the user PC 2. A print OCX 54 in the user PC 2 generates a print image on the basis of the main image data in the main image container 42 and the layout information in the layout information file and requests a printer driver 29 on printing.

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**17/5/6 (Item 2 from file: 347)**

DIALOG(R)File 347:JAPIO

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06212717 \*\*Image available\*\*

STORE SYSTEM

PUB. NO.: 11-154277 [JP 11154277 A]  
PUBLISHED: June 08, 1999 (19990608)  
INVENTOR(s): UENO TOMOSHI  
APPLICANT(s): NEC ENG LTD  
APPL. NO.: 09-319878 [JP 97319878]

FILED: November 20, 1997 (19971120)  
INTL CLASS: G07G-001/12; B65G-001/137; **G06F-017/60** ; G07F-007/08;  
G07G-001/00; G07G-001/14

## ABSTRACT

PROBLEM TO BE SOLVED: To **provide** a store system by which a customer easily purchases a desired commodity in a short time, information of a customer action pattern(route) in a store is grasped and the information is **utilized** for a **layout** in the store.

SOLUTION: The store system is constituted of an input terminal 1 having a bar code reading function, a host computer 2, a warehouse system 3 and an adjusting terminal 4. The customer carries the input terminal 1 in the store, the bar code of the purchase desired commodity is read by the input terminal 1 so as to be transmitted to the host computer 2 and the host computer 2 controls the warehouse system 3 and the adjusting terminal 4. The inside of the store is divided by electromagnetic shield partitions and antennas are respectively arranged on the ceilings of the respectively divided areas. The host computer 2 communicates with the input terminal 1 so as to store the customer action route in the store.

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**17/5/7 (Item 3 from file: 347)**  
DIALOG(R)File 347:JAPIO  
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04848836 \*\*Image available\*\*  
PROCESS SCHEDULE MANAGEMENT SYSTEM

PUB. NO.: 07-141436 [JP 7141436 A]  
PUBLISHED: June 02, 1995 (19950602)  
INVENTOR(s): YOSHINO SEIICHI  
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 05-285275 [JP 93285275]  
FILED: November 15, 1993 (19931115)  
INTL CLASS: [6] **G06F-017/60** ; G05B-019/418  
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications); 22.3 (MACHINERY -- Control & Regulation)

## ABSTRACT

PURPOSE: To **provide** a process schedule management system capable of immediately judging the change point of a layout image without influencing an old layout even when the additional change of an operation is generated, in the process schedule management system capable of both data conversion between a part drawing and a Gantt chart.

CONSTITUTION: This system is **provided** with a Gantt chart preparation and display function 16, a Gantt chart/part drawing conversion function 17, a part drawing preparation and display function 18 and a part drawing/Gantt chart conversion function 19. In the case of performing the additional change of the operation, by **utilizing** the **layout** prepared previously and specifying and properly using manual conversion, automatic successive conversion or automatic batch conversion by a user, the easily usable part drawing and Gantt chart for which the layout is not changed completely and the additional change point of the operation is easily judged compared to the previous layout, are prepared.

Set	Items	Description
S1	1414248	COLLECT??? OR GATHER??? OR AMASS??? OR ACCUMULAT??? OR OBT- AIN??? OR FIND??? OR IDENTIFY??? OR IDENTIF???
S2	1465558	INFORMATION OR DATA OR SIZE OR SIZES OR THICKNESS? OR GAGE OR SPECIFICATION? OR SPECS
S3	115038	RAW() MATERIAL OR (SCRAP OR BLANK OR UNUSED OR USABLE OR RE- MAINING OR AVAILABLE OR LEFT() OVER OR UNCUT OR UNPUNCH? OR UN- ( ) (CUT OR PUNCH? OR SHEAR?)) (2N) (METAL OR MATERIAL? OR SECTIO- N? OR SPACE OR PIECE?)
S4	1727695	MATCH??? OR (MAK??? OR MADE) ( ) (AVAILABLE OR ACCESSIBLE) OR COMMUNICATE OR COMMUNICATED OR COMMUNICATING OR PROVID???
S5	618857	FABRICATOR? OR MANUFACTURER? OR METALWORK? OR COMPAN??? OR PARTIES
S6	5054	S1(5N)S3
S7	5015	S6(S)S3
S8	95136	S4(S)S5
S9	27	S7(S)S8
S10	4	S9 AND IC=G06F-017/60
S11	11	S9 AND IC=G06F?
S12	11	IDPAT (sorted in duplicate/non-duplicate order)
S13	11	IDPAT (primary/non-duplicate records only)

File 348:EUROPEAN PATENTS 1978-2006/ 200612  
(c) 2006 European Patent Office

File 349:PCT FULLTEXT 1979-2006/UB=20060323,UT=20060316  
(c) 2006 WIPO/Univentio

13/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2006 European Patent Office. All rts. reserv.

00983604

**Pipeline decoding system**  
**Pipeline-System zur Dekodierung**  
**Systeme pipeline de decodage**

**PATENT ASSIGNEE:**

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**LEGAL REPRESENTATIVE:**

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PATENT (CC, No, Kind, Date): EP 891088 A1 990113 (Basic)  
EP 891088 B1 010509

APPLICATION (CC, No, Date): EP 98202133 950228;

PRIORITY (CC, No, Date): GB 9405914 940324

DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IE; IT; LI; NL

RELATED PARENT NUMBER(S) - PN (AN):

EP 674443 (EP 95301301)

INTERNATIONAL PATENT CLASS (V7): H04N-007/24; **G06F-013/00** ; **G06F-009/38**

ABSTRACT WORD COUNT: 269

**NOTE:**

Figure number on first page: 38

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199902	662
CLAIMS B	(English)	200119	778
CLAIMS B	(German)	200119	770
CLAIMS B	(French)	200119	881
SPEC A	(English)	199902	126651
SPEC B	(English)	200119	120956
Total word count - document A			127332
Total word count - document B			123385
Total word count - documents A + B			250717

...INTERNATIONAL PATENT CLASS (V7): **G06F-013/00** ...

... **G06F-009/38**

...SPECIFICATION registers.

Unused bits in the memory map will return a 0 when read except for  
**unused** bits in registers holding signed integers. In this case, the most  
significant bit of the...Max. power dissipation 2.5W

( Uses standard page mode DRAM

The Temporal Decoder is a **companion** chip to the Spatial Decoder. It  
**provides** the temporal decoding required by H.261 and MPEG.

The Temporal Decoder implements all the...

13/3,K/2 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2006 WIPO/Univentio. All rts. reserv.

01173104 \*\*Image available\*\*

**INITIALIZATION AND UPDATE OF SOFTWARE AND/OR FIRMWARE IN ELECTRONIC DEVICES  
INITIALISATION ET ACTUALISATION D'UN LOGICIEL ET/OU D'UN MICROPROGRAMME  
DANS DES DISPOSITIFS ELECTRONIQUES**

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LIM Jeong M, 101-1305 Chung-goo, Bluehill House, Jamwon-dong, Seocho-gu,  
Seoul, KR, US (Residence), KR (Nationality), (Designated only for: US)

SHAO-CHUN Chen, 27662 Aliso Creek Road, Apt. # 7304, Aliso Viejo, CA  
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Legal Representative:

BORG Kevin E (agent), 500 West Madison Street, Suite 3400, Chicago,  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200495457 A2-A3 20041104 (WO 0495457)

Application: WO 2004US11219 20040412 (PCT/WO US04011219)

Priority Application: US 2003412045 20030411; US 2003411835 20030411; US  
2003411784 20030411

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 10257

Main International Patent Class (v7): G06F-009/44

International Patent Class (v7): G06F-009/24

English Abstract

...to effectively and efficiently update a version of firmware resident  
in a device memory is **provided**. A method of identifying one or more  
versions of firmware is **provided** by way of initializing a device memory  
with a known pattern. In addition, the amount of free **unused** memory  
**space** may be **identified** and calculated in a device memory. The system  
and method generates software update packages that are minimal in size  
**providing** cost benefit to a **manufacturer** and convenience to a user.



13/3,K/3 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01028561 \*\*Image available\*\*

**INTEGRATING EVENT-BASED PRODUCTION INFORMATION WITH FINANCIAL AND  
PURCHASING SYSTEMS IN PRODUCT MANUFACTURING  
INTEGRATION D'INFORMATIONS DE PRODUCTION A BASE D'EVENEMENTS AVEC SYSTEMES  
FINANCIER ET D'ACHAT DANS LA FABRICATION DE PRODUITS**

Patent Applicant/Assignee:

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NYGAARD Kurt Sigurd, 224 West Wildplum Court, Appleton, WI 54913, US,  
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STAMBUK Jose Andres, 4417 North Stonebridge Court, Appleton, WI 54915, US

Legal Representative:

BARTA James J Jr (agent), Senniger, Powers, Leavitt & Roedel, One  
Metropolitan Square, 16th Floor, St. Louis, MO 63102 (et al), US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200358533 A1 20030717 (WO 0358533)  
Application: WO 2002US41718 20021227 (PCT/WO US0241718)  
Priority Application: US 2001344747 20011228; US 2002306881 20021127

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK  
TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 36207

Main International Patent Class (v7): **G06F-017/60**

Fulltext Availability:

Detailed Description

Detailed Description

... the manufacturer to the vendor, and an additional batch code created  
by the vendor to **identify** the batch of **raw material** (e.g., a roll  
of material, a barrel of fluid, a bale, or other unit...

...16-bit vendor code may be combined into a single 40-bit license plate

code **provided** as a bar code or other scannable code (including machinereadable Roman numerals ...shipped to the manufacturer 208, who may electronically read the identification means upon receipt to **identify** the **raw material** and gain access to the associated data in the materials database 190 to examine any **raw material** properties7 comments, or other information pertaining to the **raw material** prior to using the **raw material** in the **manufacturer** of a product.

[0218] FIG. 9 depicts one embodiment a PIPE-assisted manufacturing process 30...

**13/3,K/4 (Item 4 from file: 349)**  
 DIALOG(R)File 349:PCT FULLTEXT  
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01028560 \*\*Image available\*\*

**COMMUNICATION BETWEEN MACHINES AND FEED-FORWARD CONTROL IN EVENT-BASED PRODUCT MANUFACTURING**

**COMMUNICATION ENTRE DES MACHINES ET COMMANDE D'AVANCEE PERMETTANT DE FABRIQUER DES PRODUITS EN FONCTION D'EVENEMENTS**

Patent Applicant/Assignee:

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 FULLER Paul D, 401 Cleveland Street, Menasha, WI 54952, US,  
 HISE John Harland, 1425 Silverwood Lane, Neenah, WI 54956, US,  
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 LINDSAY Jeffrey Dean, 20 Diane Lane, Appleton, WI 54915, US,  
 MATHEUS Jon Ray, 4100 North Wedgewood Drive, Appleton, WI 54913, US,  
 NYGAARD Kurt Sigurd, 224 West Wildplum Court, Appleton, WI 54913, US,  
 POKORNY Michael Roy, 228 Kraft Street, Neenah, WI 54956, US,  
 READE Walter Caswell, W6181 Hazelnut Lane, Appleton, WI 54915, US,  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200358532 A1 20030717 (WO 0358532)

Application: WO 2002US41717 20021227 (PCT/WO US0241717)

Priority Application: US 2001344747 20011228; US 2002306794 20021127

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
 EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
 LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
 SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK  
 TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English  
Fulltext Word Count: 35789

Main International Patent Class (v7): **G06F-017/60**  
International Patent Class (v7): **G06F-019/00** ...  
Fulltext Availability:  
Detailed Description

Detailed Description

... the manufacturer to the vendor, and an additional batch code created by the vendor to **identify** the batch of **raw material** (e.g., ... 16-bit vendor code may be combined into a single 40-bit license plate code **provided** as a bar code or other scannable code (including machinereadable Roman numerals or alpha-numeric...shipped to the manufacturer 208, who may electronically read the identification means upon receipt to **identify** the **raw material** and gain access to the associated data in the materials database 190 to examine any **raw material** properties, comments, or other information pertaining to the **raw material** prior to using the **raw material** in the **manufacturer** of a product.

[0214] FIG. 9 depicts one embodiment a PIPE-assisted manufacturing process 30...

**13/3,K/5** (Item 5 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2006 WIPO/Univentio. All rts. reserv.

01028541 \*\*Image available\*\*

**QUALITY MANAGEMENT AND INTELLIGENT MANUFACTURING WITH LABELS AND SMART TAGS  
IN EVENT-BASED PRODUCT MANUFACTURING  
GESTION DE LA QUALITE ET FABRICATION INTELLIGENTE AU MOYEN D'ETIQUETTES  
FIXES ET D'ETIQUETTES AMOVIBLES INTELLIGENTES DANS LA FABRICATION DE  
PRODUITS COMMANDEE PAR DES EVENEMENTS**

Patent Applicant/Assignee:

KIMBERLY-CLARK WORLDWIDE INC, 401 N. Lake Street, Neenah, WI 54956, US,  
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IHDE Sheryl Annette, W7735 Spring Road, Greenville, WI 54942, US,  
LINDSAY Jeffrey Dean, 20 Diane Lane, Appleton, WI 54915, US,  
NYGAARD Kurt Sigurd, 224 West Wildplum Court, Appleton, WI 54913, US,  
POKORNY Michael Roy, 228 Kraft Street, Neenah, WI 54956, US,  
PRICE Michael T, 2889 Scenic Drive, Oshkosh, WI 54904, US,  
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YOSTEN Roger Dale, 2125 County Road 33200, Sumner, TX 75486, US,

Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200358506 A1 20030717 (WO 0358506)  
Application: WO 2002US41538 20021223 (PCT/WO US02041538)  
Priority Application: US 2001344747 20011228; US 2002306868 20021127

Designated States:

(Protection type is "patent" unless otherwise stated - for applications

prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
 EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
 LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
 SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
 (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK  
 TR  
 (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
 (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
 (EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 37059

Main International Patent Class (v7): **G06F-017/30**

Fulltext Availability:

Detailed Description

Detailed Description

... the manufacturer to the vendor, and an additional batch code created by the vendor to **identify** the batch of **raw material** (e. ...16-bit vendor code may be combined into a single 40-bit license plate code **provided** as a bar code or other scannable code (including machinereadable Roman numerals or alpha-numeric...shipped to the manufacturer 208, who may electronically read the identification means upon receipt to **identify** the **raw material** and gain access to the associated data in the materials database 190 to examine any **raw material** properties, comments, or other information pertaining to the **raw material** prior to using the **raw material** in the **manufacturer** of a product.

[0216] FIG. 9 depicts one embodiment a PIPE-assisted manufacturing process 30...

**13/3,K/6** (Item 6 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01028540 \*\*Image available\*\*

**QUALITY MANAGEMENT BY VALIDATING A BILL OF MATERIALS IN EVENT-BASED PRODUCT MANUFACTURING**

**GESTION DE LA QUALITE PAR VALIDATION D'UNE NOMENCLATURE DE MATERIAUX DANS LA FABRICATION DE PRODUITS FONDEE SUR LES EVENEMENTS**

Patent Applicant/Assignee:

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 PARK Scott Jeffrey, 850 Emily Street, Menasha, WI 54952, US,

POKORNY Michael Roy, 228 Kraft Street, Neenah, WI 54956, US,  
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REYNDERS John L, 410 E. North Street, Appleton, WI 54911, US,  
SHAFFER Gregory Duncan, 1686 Delta Drive, Neenah, WI 54956, US,  
YOSTEN Roger Dale, 2125 County Road 33200, Sumner, TX 75486, US,

## Legal Representative:

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Metropolitan Square, 16th Floor, St. Louis, MO 63102, (et al), US,

## Patent and Priority Information (Country, Number, Date):

Patent: WO 200358505 A1 20030717 (WO 0358505)  
Application: WO 2002US41536 20021223 (PCT/WO US0241536)  
Priority Application: US 2001344747 20011228; US 2002306883 20021127

## Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK  
TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 34556

Main International Patent Class (v7): **G06F-017/30**

Fulltext Availability:

Detailed Description

## Detailed Description

... the manufacturer to the vendor, and an additional batch code created  
by the vendor to **identify** the batch of **raw material** (e.g., a roll  
of material, a barrel of fluid, a bale, or other unit single 40-bit  
license plate code **provided** as a bar code or other scannable code  
(including machinereadable Roman numerals or alpha-numeric...shipped to  
the manufacturer 208, who may electronically read the identification  
means upon receipt to **identify** the **raw material**, and gain access to  
the associated data in the materials database 190 to examine any **raw  
material** properties, comments, or other information pertaining to the  
**raw material** prior to using the **raw material** in the **manufacturer**  
of a product.  
[0210]

**13/3,K/7 (Item 7 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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01028524 \*\*Image available\*\*

**USER INTERFACE FOR REPORTING EVENT-BASED PRODUCTION INFORMATION IN PRODUCT  
MANUFACTURING**

**INTERFACE UTILISATEUR POUR LE RAPPORT D'INFORMATIONS DE PRODUCTION FONDEE  
SUR LES EVENEMENTS DANS LA FABRICATION DE PRODUITS**

Patent Applicant/Assignee:

KIMBERLY-CLARK WORLDWIDE INC, 401 N. Lake Street, Neenah, WI 54956, US,  
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BARBER Douglas Gordon Barron, 2445 West Cherokee Drive, Appleton, WI  
54914, US,  
HOO Winnie Shi Mei Shun, 125 East Wayfarer Lane, Appleton, WI 54913, US,  
LINDSAY Jeffrey Dean, 20 Diane Lane, Appleton, WI 54915, US,  
MARKHAM Charles Earl, N210 Liberty Lane, Appleton, WI 54915, US,  
MATHEUS Jon Ray, 4100 N. Wedgewood Drive, Appleton, WI 54913, US,  
MORK Jamie Scott, W6797 Windward Drive, Greenville, WI 54942, US,  
NYGAARD Kurt Sigurd, 224 West Wildplum Court, Appleton, WI 54913, US,  
READE Walter Caswell, W6181 Hazelnut Lane, Appleton, WI 54915, US,  
STAMBUK Jose Andres, 4417 N. Stonebridge Court, Appleton, WI 54915, US,

## Legal Representative:

BARTA James J Jr (et al) (agent), Senniger, Powers, Leavitt & Roedel, One  
Metropolitan Square, 16th Floor, St. Louis, MO 63102, US,

## Patent and Priority Information (Country, Number, Date):

Patent: WO 200358486 A1 20030717 (WO 0358486)  
Application: WO 2002US41537 20021223 (PCT/WO US0241537)  
Priority Application: US 2001344747 20011228; US 2002306867 20021127

## Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK  
TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 36650

Main International Patent Class (v7): G06F-017/00

Fulltext Availability:

Detailed Description

## Detailed Description

... the manufacturer to the vendor, and an additional batch code created  
by the vendor to **identify** the batch of **raw material** (e.g., a roll  
of material, a barrel of fluid, a bale, or other unit...16-bit vendor  
code may be combined into a single 40-bit license plate code **provided**  
as a bar code or other scannable code (including machinereadable Roman  
numerals or alpha-numeric...shipped to the manufacturer 208, who may  
electronically read the identification means upon receipt to **identify**  
the **raw material** and gain access to the associated data in the  
materials database 190 to examine any **raw material** properties,  
comments, or other information pertaining to the **raw material** prior  
to using the **raw material** in the **manufacturer** of a product.

[0213] FIG. 9 depicts one embodiment a PIPE-assisted manufacturing  
process 30...

13/3,K/8 (Item 8 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00999941 \*\*Image available\*\*

SUPPLIER DATA MANAGEMENT SYSTEM

**SYSTEME DE GESTION DE DONNEES DE FOURNISSEURS**

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200329927 A2-A3 20030410 (WO 0329927)  
Application: WO 2002US31244 20020930 (PCT/WO US0231244)  
Priority Application: US 2001326128 20010928; US 2002253200 20020923

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 10774

Main International Patent Class (v7): **G06F-017/60**

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... raw material supplier 20.

In addition to standard techniques used for established products and materials **obtained** from standard **raw material** suppliers, the process of **identifying** a **raw material** 22 to be purchased and/or a **raw material** supplier 20 to **provide** the **raw material** 22 can, in some circumstances, include the "fingerprint **matching**" method disclosed in WO 01/46883, 0 "Method and System for Specifying Materials," published June **manufacturer** are compared to a variety of measurements from the **raw material** supplier 20 to allow the product **manufacturer** 50 to determine if the fit is close enough for use in the manufacturing process 42. The ideal **raw material** 22 may not be well-specified or an ingredient may be sought that is not readily described. Thus, the product **manufacturer** 50 may supply a series of chemical measurements with possible acceptable ranges to specify a potentially acceptable **raw material** 22, and the **raw material** supplier 20 may **provide** other measurements. The **raw material** supplier 20 may **provide** many more 0 ...for in the stated specification or product request form, recognizing that the nature of a **raw material** 22 can include numerous attributes

that may not have been expressly considered by the product **manufacturer** 50 but that may be helpful in judging the quality of the proposed **raw material** 22 and also its suitability for other products and processes that the product **manufacturer** may have developed or may be developing.

Several potential raw materials 22 from one...

#### Claim

... documenting actions taken with respect to the system.

28 A method for supplying a compliant **raw material** ' identified by a **raw**

3 0 material code, the method comprising:

receiving a **raw material** specification from a **manufacturer** via an electronic network, wherein the **raw material** specification corresponds with the **raw material** code; selecting a **raw material** to meet the **raw material** specification, the **raw material** having **raw material** property data;

22

entering the **raw material** property data into a supplier data management system **provided** by the **manufacturer** such that the **raw material** property data is associated with the **raw material** code;

transmitting the **raw material** property data to the **manufacturer** via the network; generating a comparison of the **raw material** property data to the **raw material** specification using a generator within the supplier data management system; transmitting the comparison to the **manufacturer** via the network; and shipping the **raw material** to the **manufacturer** .

29 The method of claim ...the supplier can display the raw material specifications.

46 A method for a manufacturer to **obtain** a compliant **raw material** having **raw**

**material** property data, the method comprising:

defining a **raw material** specification for the **raw material** ;

storing the **raw material** specification in a database of **raw material** specifications in

communication with an electronic network;

3 0 transmitting the **raw material** specification to a supplier via the network; receiving the **raw material** property data from the supplier via the network; storing the **raw material** property data in a database of **raw material** property data

in communication with the network;

determining whether the **raw material** is in compliance with the **raw material** 3 5 specification by comparing the **raw material** property data to the **raw material** specification using a data entry system;

24

generating a compliance signal using a signal generator, wherein the compliance signal indicates whether the **raw material** is compliant with the corresponding **raw material** specification in response to the determining act;

**communicating** the compliance signal to an operator;

receiving a response to the compliance signal from the operator; and

receiving the **raw material** from the **manufacturer** .



47 The method of claim 46, further comprising verifying manufacturer identification prior to the transmitting...

**13/3,K/9 (Item 9 from file: 349)**  
 DIALOG(R)File 349:PCT FULLTEXT  
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00871894 \*\*Image available\*\*

**SYSTEM, METHOD AND MEDIUM FOR FACILITATING TRANSACTIONS OVER A NETWORK  
 SYSTEME, PROCEDE ET SUPPORT FACILITANT DES TRANSACTIONS SUR UN RESEAU**

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(Residence), GB (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

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Legal Representative:

PRICE Nigel John King (agent), J.A.KEMP & CO., 14 South Square, Gray's  
 Inn, London, WC1R 5LX, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200205153 A2-A3 20020117 (WO 0205153)

Application: WO 2001IB1471 20010627 (PCT/WO IB01001471)

Priority Application: US 2000612552 20000707

Designated States:

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
 EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
 LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
 TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 49959

Main International Patent Class (v7): **G06F-017/60**

Fulltext Availability:

Detailed Description

Detailed Description

... Demand. Pull Definition Data record 281a for a particular product/service, there is a component/ **raw material** Demand Pull Matrix 281b which **identifies** the type and quantity of items/raw materials **provided** by the supplier for the washing machine as well as the type, quantity and. lead...

...delay) for items required from the next lower level in the chain. For example, the **manufacturer** 's (tier 2) component matrix identifies the finished washing machine as the item to be **provided** and the type and number of component parts to be ordered from the suppliers in...

...time for each subcomponent. The Demand Pull Mentor 280, having retrieved the Demand. Pull. matrix, **makes available** , either by **providing** proactively in secure electronic form to an agreed file format (e.g. XML, EDI) via...

...as a DVD, which would be physically sent to the supplier. It can also be **provided** through other media such as in a written report or spreadsheet format by fax or...

...sometimes referred, are becoming a popular

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means of conducting business-to-business transactions between **companies** in the same or associated industry sector (e.g. automotive) of which the supplier may...

**13/3,K/10 (Item 10 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00802534

**ANY-TO-ANY COMPONENT COMPUTING SYSTEM**

**SYSTEME INFORMATIQUE A COMPOSANTS TOUTE CATEGORIE**

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Patent Applicant/Inventor:

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LOWE Steven, 1625 Starboard Drive, Hixson, TN 37343, US, US (Residence), US (Nationality), (Designated only for: US)

Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200135216 A2-A3 20010517 (WO 0135216)

Application: WO 2000US31231 20001113 (PCT/WO US0031231)

Priority Application: US 99164884 19991112

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 275671

Main International Patent Class (v7): **G06F-009/44**

International Patent Class (v7): **G06F-017/22**

Fulltext Availability:

Claims

Claim

... Location Name &.... Location name & Coordinate & way-point

Space & Location Name &.... Location name & Coordinate & map reference

**Space** & Location Name &.... Location name & Coordinate

In a general office application, there will be many street...

...Concept Hierarchy of each will be:

5 Space & Location Name &.... Location name & Coordinate & Street Address  
**Company 1**  
 Space & Location Name &.... Location name & Coordinate & Street Address  
**Company 2**  
 Space & Location Name &.... Location name & Coordinate & Street Address  
**Company 3**

The same computer may also have Map references:

Space & Location Name &.... Location name & Coordinate...is becoming less  
 and less desirable - few people know the physical location of their  
 service **provider** 's e-mail server. Mobile telephones do not have a fixed

location. In fact such...

...Hence the number or method to use depends on 1) the person to whom to  
**communicate** 2) The person's activity at that time of day governs 3)  
 Their Location. While...a meaning in the Matter Data Category. This  
 meaning can be stated as 'The Matter - **material** things - of fplace 1 0  
 name)'. For example: 'burn down the village'uses the word...

**13/3,K/11 (Item 11 from file: 349)**  
 DIALOG(R)File 349:PCT FULLTEXT  
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00784184 \*\*Image available\*\*

**A SYSTEM, METHOD FOR FIXED FORMAT STREAM COMMUNICATION IN A COMMUNICATION  
 SERVICES PATTERNS ENVIRONMENT**  
**SYSTEME, PROCEDE ET ARTICLE POUR FLUX DE FORMAT FIXE DANS UN ENVIRONNEMENT  
 A CONFIGURATIONS DE SERVICES DE COMMUNICATION**

Patent Applicant/Assignee:

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 (Residence), US (Nationality)

Inventor(s):

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 , US,

Legal Representative:

HICKMAN Paul L (agent), Oppenheimer Wolff & Donnelly LLP, P.O. Box 52037,  
 Palo Alto, CA 94303-0746, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200117194 A2-A3 20010308 (WO 0117194)  
 Application: WO 2000US24114 20000831 (PCT/WO US0024114)  
 Priority Application: US 99386430 19990831

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
 prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DZ EE ES  
 FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA  
 MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA  
 UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 149954

International Patent Class (v7): **G06F-017/22** ...

Fulltext Availability:

Claims

## Claim

... domain, and introducing new requirements would require more abrupt changes.

Example: Inventory Management

A telecommunications **company** in the paging business sells and leases pagers and services. One part of the **company** is installing an inventory management system for tracking pagers, while another part of the **company** is trying to determine how to track the frequencies that are owned

and leased by the **company**. What does this **company** mean by inventory? Does it simply mean

knowing what items are in a warehouse?

When the **company** thinks abstractly about the concept of inventory, they discover that it's all about managing...has been established, the development time for subsequent projects can be reduced. In one utility **company** they saw significant gains in the reuse of components across initiatives. Rather than copying and...

...approaches. This broad impact

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creates multiple learning curves, complicating the migration of an organization. **Finding available** skills is also difficult, because demand currently outweighs supply. Component-based systems may also require...and object technology skills is key to success. Even a few skilled component developers can **provide** significant leverage to mentor and support an inexperienced development team. Experience has shown that at...

...development in sequential phases of activity such as analysis, design, code, and test. The waterfall **provides** control and discipline to development, particularly critical for la

arge, missioncritical efforts. On the other...business-modeling phase to descriptions of classes in the construction phase. UML compliant CASE tools **provide** a number of the deliverables that most object methodologies uses, however, there are almost always...

...the deliverables described by U1

4L. In the case where a deliverable is a close **match** to a LTIAL deliverable, proprietary scripting is required to allow for complete semantics. This scripting...definitions. Thus, large projects must consider crafting a strategy to integrate multiple point tools to **provide** such crossreferencing. The tools gap raises the importance of rigorous procedural and organizational models to...

...team developers then take on cross-function architecture responsibility. This approach has obvious benefits in **providing** straightforward communication points and division of responsibility. A drawback, however, is that business function reuse...

...two may have a tight relationship. For example, consider a gas utility customer system that **provides** customer service orders. The service order business process and service order domain object owner should...

...with other key domain components such as the customer and premise. This requires collaborating and **communicating** with other developers. Rigid ownership boundaries may not work. Experience has shown, however, that the...the turn-around time is longer. Delivery Capability - The ability of the migration team to **provide** a

Set	Items	Description
S1	1414248	COLLECT??? OR GATHER??? OR AMASS??? OR ACCUMULAT??? OR OBT- AIN??? OR FIND??? OR IDENTIFY??? OR IDENTIF???
S2	1465558	INFORMATION OR DATA OR SIZE OR SIZES OR THICKNESS? OR GAGE OR SPECIFICATION? OR SPECS
S3	115038	RAW() MATERIAL OR (SCRAP OR BLANK OR UNUSED OR USABLE OR RE- MAINING OR AVAILABLE OR LEFT() OVER OR UNCUT OR UNPUNCH? OR UN- ( ) (CUT OR PUNCH? OR SHEAR?)) (2N) (METAL OR MATERIAL? OR SECTIO- N? OR SPACE OR PIECE?)
S4	1727695	MATCH??? OR (MAK??? OR MADE) ( ) (AVAILABLE OR ACCESSIBLE) OR COMMUNICATE OR COMMUNICATED OR COMMUNICATING OR PROVID???
S5	618857	FABRICATOR? OR MANUFACTURER? OR METALWORK? OR COMPAN??? OR PARTIES
S6	5054	S1(5N)S3
S7	5015	S6(S)S3
S8	95136	S4(S)S5
S9	27	S7(S)S8
S10	4	S9 AND IC=G06F-017/60
S11	11	S9 AND IC=G06F?
S12	11	IDPAT (sorted in duplicate/non-duplicate order)
S13	11	IDPAT (primary/non-duplicate records only)
S14	832	(UTILIZ? OR OPTIMIZ?) (2N) (NESTING OR SKELETON OR LAYOUT?)
S15	15	S14(S)S3
S16	13	S15(S)S4
S17	1	S16 AND IC=G06F-017/60
S18	2	S16 AND IC=G06F?

File 348:EUROPEAN PATENTS 1978-2006/ 200612  
(c) 2006 European Patent Office

File 349:PCT FULLTEXT 1979-2006/UB=20060323,UT=20060316  
(c) 2006 WIPO/Univentio

18/3,K/1 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01129716

**METHOD OF OPTIMIZING A LAYOUT OF SELECTED PARTS TO BE CUT****PROCEDE VISANT A OPTIMISER UNE DISPOSITION DE PARTIES A COUPER  
SELECTIONNEES**

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COULOMBE Pierre, 3973, Gilles-Villeneuve, Sainte-Foy, Quebec G1X 4X4, CA,  
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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200451523 A1 20040617 (WO 0451523)  
Application: WO 2003CA1872 20031202 (PCT/WO CA03001872)  
Priority Application: US 2002307292 20021202

Designated States:

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AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU  
SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
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Fulltext Word Count: 17418

Main International Patent Class (v7): **G06F-017/60**

Fulltext Availability:

Detailed Description  
Claims

## Detailed Description

... system for performing the optimization task. Another two-axis  
apparatus for optimizing the yield of **usable piece** from boards and  
the like is disclosed in U.S. Patent 3,942,021 issued...

...to select the arrangement of subdivided piece surface sections  
associated with the arrangements of parts **providing** a maximal basic  
yield value to be included in the **optimized layout** of selected parts  
to be cut.

According to the same main object, from a further...

...code is stored, which program code will cause a computer to perform a  
method of **optimizing a layout** of selected parts to be cut from a  
piece of **raw material** with respect to first and second orthogonal

reference axis, using data representing geometric and defect...

...to select the arrangement of subdivided piece surface sections associated with the arrangements of parts **providing** a maximal basic yield value to be included in the **optimized layout** of selected parts to be cut.

Brief description of the drawings

A preferred embodiment...

...bill.

Detailed description of the preferred embodiments

Referring now to Fig. 1a, a method of **optimizing** a **layout** of selected parts to be cut in accordance with the present invention will now be...

...be advantageously employed for performing cutting optimization in other manufacturing contexts involving various types of **raw material**, such as paper, glass, fabric, plastic or rubber materials, whenever cutting patterns with respect to...

...detailed description refers involves elongated pieces of lumber such as boards, other types of wood **raw material** can be the object of the optimization method according to the invention, such as plywood...

...to the invention allows finding the best arrangement of parts within a layout adapted to **match** a specific piece of lumber having predetermined known dimensions and characterized by the presence of...

...with requested quantity as set out by the cutting bill while seeking to recover residual **raw material available** between the areas containing the parts to be cut. The optimization method preferably **provides** relevant information concerning the result of simulation processes, including **raw material** and/or economic value yield data. The optimization method according to the invention may be...

...rough-mills or as a stand-alone computer system capable of performing simulation processes to **provide** further flexibility of use. According to the former implementation, several of the optimization parameters can...

...run on known computer hardware readily available in the marketplace, such as a personal computer **provided** with Pentium 11 500 MHz or equivalent, with 128 Mbytes of RAM using Windows NTm...as well as secondary placement of recycled parts may still leave free areas made of **unused raw material**, within some sections of a processed piece of lumber. The reclaiming function 1 5 programmed...

...for each arrangement of parts in each subsection included in each piece surface section and **providing** a maximal basic yield value, one or more remaining free areas according to the geometric and defectrelated characteristics of the piece. Then, there is **provided** a step 147 consisting of generating data defining, for at least some of the remaining free areas, one or more reclaimed elements to be included therein as part of the **optimized layout** of selected parts to be cut. Finally, additional yield values associated with the inclusion of...

#### Claim

1 . A method of **optimizing** a **layout** of selected parts to be cut from a piece of **raw material** with respect to first and second orthogonal

reference axis, using data representing geometric and defect...

...to select said arrangement of subdivided piece surface sections associated with said arrangements of parts **providing** a maximal basic yield value to be included in said **optimized layout** of selected parts to be cut.

2 The method of claim 1, wherein said piece...

...code is stored, which program code will cause a computer to perform a method of **optimizing a layout** of selected parts to be cut from a piece of **raw material** with respect to first and second orthogonal reference axis, using data representing geometric and defectrelated...

...to select said arrangement of subdivided piece surface sections associated with said arrangements of parts **providing** a maximal basic yield value to be included in said **optimized layout** of selected parts to be cut.

**18/3,K/2 (Item 2 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00515352

**METHOD AND APPARATUS FOR ELECTRONIC DESIGN**

**PROCEDE ET APPAREIL DE CONCEPTION ELECTRONIQUE**

Patent Applicant/Assignee:

ARISTO TECHNOLOGY INC,  
GREIDINGER Jacob,  
MARKOSIAN Ara,  
FRANKLE Jon,  
HUI Siu-Tong,  
SARGISIAN Sedrak,

Inventor(s):

GREIDINGER Jacob,  
MARKOSIAN Ara,  
FRANKLE Jon,  
HUI Siu-Tong,  
SARGISIAN Sedrak,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9946704 A1 19990916

Application: WO 99US5273 19990310 (PCT/WO US9905273)

Priority Application: US 9877405 19980310; US 9890298 19980623; US  
9893329 19980720; US 99227023 19990107; US 99227491 19990107

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE  
GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK  
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US US  
US US UZ VN YU ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ  
TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI  
CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 19670

Main International Patent Class (v7): **G06F-017/50**

Fulltext Availability:

Detailed Description



## Detailed Description

... implemented in the current invention determine wire routing on a layer by layer basis. This **provides** additional degrees of design freedom for **optimizing** cell **layout**. First, routing can now be accomplished in **unused metal** layers within a cell/sub-cell boundary. Second, the device layers of a cell/sub...

Set	Items	Description
S1	14435	(SCRAP OR BLANK OR UNUSED OR USABLE OR REMAINING OR AVAILABLE OR LEFT() OVER OR UNCUT OR UNPUNCH? OR UN() (CUT OR PUNCH? - OR SHEAR?)) (2N) (METAL OR MATERIAL? OR SECTION? OR SPACE OR PIECE?)
S2	2400486	MATCH??? OR (MAK??? OR MADE) () (AVAILABLE OR ACCESSIBLE) OR OFFER??? OR COMMUNICATE OR COMMUNICATED OR COMMUNICATING OR PROVIDID???
S3	3169	S1 AND S2
S4	1973960	FABRICATOR? OR MANUFACTURER? OR METALWORK? OR COMPAN??? OR PARTIES
S5	266	S3 AND S4
S6	980694	SERVICE() PROVIDER? OR (3RD OR THIRD) () PART??? OR INTERMEDIAR? OR AGGREGAT? OR AGENT? ? OR BROKER? ? OR MIDDLEMAN OR MIDDLEMEN OR NEGOTIATOR? OR MEDIATOR? OR WEBSITE? OR WEBPAGE? OR WEB() (PAGE? OR SITE?) OR ONLINE OR ON() LINE OR INTERNET OR WEB OR COMPUTER
S7	39	S5 AND S6
S8	27	S7 NOT PY>2001
S9	27	RD (unique items)
File	2:INSPEC 1898-2006/Mar W3	(c) 2006 Institution of Electrical Engineers
File	35:Dissertation Abs Online 1861-2006/Mar	(c) 2006 ProQuest Info&Learning
File	65:Inside Conferences 1993-2006/Mar 30	(c) 2006 BLDSC all rts. reserv.
File	99:Wilson Appl. Sci & Tech Abs 1983-2006/Feb	(c) 2006 The HW Wilson Co.
File	474:New York Times Abs 1969-2006/Mar 29	(c) 2006 The New York Times
File	475:Wall Street Journal Abs 1973-2006/Mar 29	(c) 2006 The New York Times
File	583:Gale Group Globalbase(TM) 1986-2002/Dec 13	(c) 2002 The Gale Group

9/5/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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08508130 INSPEC Abstract Number: A2003-04-8630F-053, B2003-02-8410E-072

**Title: Electrochemical properties of lead oxide films obtained by spray pyrolysis as negative electrodes for lithium secondary batteries**

Author(s): Martos, M.; Morales, J.; Sanchez, L.; Ayouchi, R.; Leinen, D.; Martin, F.; Ramos Barrado, J.R.

Author Affiliation: Laboratorio de Quimica Inorganica, Cordoba Univ., Spain

Conference Title: New Materials for Electrochemical Systems IV. Extended Abstracts of the Fourth International Symposium on New Materials for Electrochemical Systems p.206-8

Editor(s): Savadogo, O.

Publisher: Ecole Polytechnique de Montreal, Montreal, Que., Canada

Publication Date: 2001 Country of Publication: Canada xxiii+488 pp.

Material Identity Number: XX-2001-00108

Conference Title: Proceedings of Fourth International Symposium on New Materials for Electrochemical Systems

Conference Date: 9-13 July 2001 Conference Location: Montreal, Que., Canada

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Experimental (X)

Abstract: Today, the use of lithium alloys as anodic materials in Li-ion batteries is an interesting field of research on account of the promising results **provided** by tin-based compounds. The authors' group has focussed on the ability of lead to form lithium alloys. This paper reports on the potential of lead oxide as an anodic material. This system was selected for two reasons, namely: (i) the low cost of lead; and (ii) the commercial significance of the lead-acid battery. A lead-based **material usable** in both lead-acid and Li-ion batteries would be attractive for **manufacturers** wishing to complement or replace the role of lead-acid batteries in its traditional market (viz. the automotive industry). They used a spray pyrolysis method to prepare lead oxide electrodes. This method is a simple, inexpensive choice with the added advantage that it allows the obtainment of large thick films and can be adapted for use in **online** manufacturing processes. This paper reports the characterization of PbO films using different physical techniques, and their performance in Li cells. (1 Refs)

Subfile: A B

Descriptors: anodes; electrochemical electrodes; electrochemistry; lead compounds; lithium; pyrolysis; secondary cells; spray coatings

Identifiers: Li-ion secondary batteries; electrochemical properties; lead oxide films; spray pyrolysis; negative electrodes; anodic materials; automotive industry; large thick films; **online** manufacturing processes; electrochemical characterisation; Li; PbO

Class Codes: A8630F (Secondary cells); A8245 (Electrochemistry and electrophoresis); A8230L (Decomposition reactions (pyrolysis, dissociation, and group ejection)); A8115R (Spray coating techniques); B8410E (Secondary cells); B0520X (Other thin film deposition techniques)

Chemical Indexing:

Li int - Li el (Elements - 1)

PbO int - Pb int - O int - PbO bin - Pb bin - O bin (Elements - 2)

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9/5/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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07808859

**Title: Leading the way into the open source community**

Author(s): Ludlow, D.

Journal: Network News (UK Edition) p.55-8

Publisher: VNU Business Publications,

Publication Date: 29 Nov. 2000 Country of Publication: UK

CODEN: NNEWFL ISSN: 1386-1883

Material Identity Number: G468-2000-027

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Microsoft-bashing has become something of an industry hobby. Viewed as a monolithic dominating empire, it's little wonder that rallying cries of support have gone out to the little guy as the open source community fights against its perceived tyrant. The question is, would replacing Microsoft with another dominating force actually make things better? It's a situation where an Animal Farm scenario could bit played out in the IT industry. A clear case in point comes from Red Hat, which has the biggest global Linux market share with its distribution. Despite flying the open source flag, and saluting the free-spirited industry that it spawned from, one has to wonder whether there is something a little more sinister going on underneath. Pay a visit to the **Web site** and take a look at the training **section**. Clearly **available** is the Red Hat Certified Engineer course. The title bears a striking resemblance to the courses **offered** by both Cisco and Microsoft, two **companies** that the open source community is quite opposed to. (0 Refs)

Subfile: D

Descriptors: DP industry; operating systems (computers)

Identifiers: open source community; Microsoft; Linux; Red Hat

Class Codes: D5000 (Office automation - computing)

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9/5/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

07684327 INSPEC Abstract Number: B2000-10-6210L-020, C2000-10-7210N-005

**Title: Defining user requirements for WAP services**

Author(s): Kaasinen, E.; Aaltonen, M.; Laakko, T.

Conference Title: Human-Computer Interaction: Ergonomics and User Interfaces. Proceedings of HCI International '99 (8th International Conference on Human-Computer Interaction) Part vol.2 p.33-7 vol.2

Editor(s): Bullinger, H.-J.; Ziegler, J.

Publisher: Lawrence Erlbaum Associates, Mahwah, NJ, USA

Publication Date: 1999 Country of Publication: USA 2  
vol.(xxx+1356+1355) pp.

ISBN: 0 8058 3391 9 Material Identity Number: XX-2000-01659

Conference Title: Proceedings of 8th International Conference on Human Computer Interaction and Special Session on Intelligent Tutoring and Learning Environments

Conference Date: 22-26 Aug. 1999 Conference Location: Munich, Germany

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: The rapid growth of **Web** services has led to a situation where **companies** and individuals are increasingly reliant on **material** that is **available** on the **Internet** or intranets. From this it follows that people need access to the **Web** even when they are away from home or office. Wireless Application Protocol (WAP) and Wireless Markup Language (WML) will together form a framework in which **Web** services can be brought to small mobile terminals. WAP will constitute an open architecture,

enabling the user to access the same services from a number of different terminals via mobile networks. Although the international specification work on WAP is still going on, the first WAP-compliant devices were introduced in March 1999. This paper describes our approach to define user requirements for two kinds of WAP services. Our user group is not limited solely to the mobile users of the services. We have also considered the requirements of **service providers**, terminal **manufacturers** and application developers, because they are all needed to bring WAP services to end users. (6 Refs)

Subfile: B C

Descriptors: high level languages; information resources; open systems; protocols; radio access networks

Identifiers: user requirements; WAP services; **Web** services; **Internet**; intranets; Wireless Application Protocol; Wireless Markup Language; WML; open architecture; mobile networks; WAP-compliant devices

Class Codes: B6210L (Computer communications); B6250B (Radio access systems); B6150M (Protocols); C7210N (Information networks); C5620W (Other computer networks); C5640 (Protocols); C6140D (High level languages); C6150N (Distributed systems software)

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9/5/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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07368973

**Title: Engineering information management in the UK 1999. Still waiting to cross the chasm?**

Author(s): Hall, G.

Author Affiliation: Tachbrook Consulting, Bishop's Tachbrook, UK

Journal: Information Management & Technology vol.32, no.5 p.217-20

Publisher: Cimtech,

Publication Date: Sept. 1999 Country of Publication: UK

CODEN: IMTDEM ISSN: 0266-6960

SICI: 0266-6960(199909)32:5L:217:EIM1;1-M

Material Identity Number: P582-1999-005

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The more advanced **companies** are already viewing their engineering processes under product data management as being part of a knowledge management strategy. With more and more engineering information becoming available across the corporate intranet, the ability to integrate PDM with business intelligence via a knowledge portal is becoming a reality. This means that the re-use of whole engineering projects becomes a practicality at a much reduced cost. Intelligent **agents** can **provide** the ability to be automatically prompted about the latest **available** data about **materials**, testing and simulation whenever a document referring to such information is accessed. The result of KM in engineering will be a much faster design process at reduced cost with a higher quality. (0 Refs)

Subfile: D

Descriptors: document image processing; engineering; manufacturing industries; very large databases

Identifiers: product data management; knowledge management; engineering processes; business intelligence; knowledge portal; intelligent **agents**

Class Codes: D2070 (Industrial and manufacturing); D3045 (Records management systems); D2080 (Information services and database systems)

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9/5/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

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07185154

**Title: A delicate balance [load balancing switches and routers]**

Author(s): Harbaugh, L.

Journal: InformationWEEK no.718 p.57-8, 62, 64, 66-8

Publisher: CMP Media Inc,

Publication Date: 25 Jan. 1999 Country of Publication: USA

CODEN: INFWE4 ISSN: 8750-6874

SICI: 8750-6874(19990125)718L:57:DBLB;1-Z

Material Identity Number: I819-1999-006

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: It's an axiom in the PC server world that you can never have too much capacity. Disk **space**, memory, and **available** processing power have a way of disappearing faster than even experienced administrators count on. Applications such as **Web** servers, File Transfer Protocol servers, and database servers can quickly expand beyond the limits of the Intel platform or any single platform. Load balancing switches and routers may be a good option if your **company** needs the kind of scalability that clustering doesn't **offer** yet. (0 Refs)

Subfile: D

Descriptors: network servers; resource allocation; search engines; switches; telecommunication network routing; telecommunication switching

Identifiers: load balancing switches; load balancing routers; PC server;

**Web** servers; File Transfer Protocol servers; database servers; scalability

Class Codes: D5020 (Computer networks and intercomputer communications);

D2080 (Information services and database systems)

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9/5/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

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06627481 INSPEC Abstract Number: B9708-6210L-103, C9708-7260-003

**Title: Web -based training for online retrieval: an idea whose time is coming**

Author(s): Hawkins, D.T.

Author Affiliation: InfoResources Corp., Berkeley Heights, NJ, USA

Journal: Online vol.21, no.3 p.68-9

Publisher: Online Inc,

Publication Date: May-June 1997 Country of Publication: USA

CODEN: ONLIDN ISSN: 0146-5422

SICI: 0146-5422(199705/06)21:3L:68:BTOR;1-V

Material Identity Number: 0051-97003

U.S. Copyright Clearance Center Code: 0146-5422/97/\$2.00+00.15

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Interest in using the **Internet** and its GUI based World Wide **Web** for training has grown rapidly in recent months. The author explores issues and considerations surrounding **Web** Based Training (WBT) and reviews some specific training courses that have been developed and delivered over the **Web**. He focuses primarily on applications of WBT for **online** retrieval. Much **material** is **available** not only on the publicly accessible **Web**, but also on private in-house systems (intranets) that use **Internet** technology. Many **companies** have discovered that intranets are

a very easy and cost effective way to deliver a wide range of information to their employees. Everything from personnel guides to library catalogs to **online** databases can now be found on intranets. Naturally, **companies** are also looking at **providing** training courses. With all the interest in WBT, one might therefore think that there are many WBT sites available. So far, however, there are very few that deliver true training courses. The author considers what WBT is before looking at some of the issues and reasons for using it. (2 Refs)

Subfile: B C

Descriptors: computer based training; educational courses; educational technology; information retrieval; **Internet**

Identifiers: **Web** Based Training; **online** retrieval; personnel guides; GUI based World Wide **Web** ; training courses; publicly accessible **Web** ; private in-house systems; intranets; **Internet** technology; library catalogs; **online** databases; WBT sites

Class Codes: B6210L (Computer communications); C7260 (Information science education); C7810C (Computer-aided instruction); C0220 (Computing education and training); C7110 (Educational administration); C7210 (Information services and centres); C5620W (Other computer networks); C7250R (Information retrieval techniques)

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9/5/7 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

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06382290

**Title: Intranets: training's opportunity**

Author(s): Waller, V.

Author Affiliation: CC Inf. Syst., UK

Journal: Training Officer vol.32, no.7 p.213-14

Publisher: Marylebone Press,

Publication Date: Sept. 1996 Country of Publication: UK

CODEN: TROFA7 ISSN: 0041-090X

SICI: 0041-090X(199609)32:7L:213:ITO;1-8

Material Identity Number: D571-96007

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Although the **Internet** is mainly being used to disseminate product information, an increasing number of people are examining ways to deliver training via this medium too. At the moment, there are a number of problems with making training **materials** and programmes **available** via the **Internet** and these are outlined. While the **Internet** is having teething problems with regard to training, Intranets already **offer** a solution to some of these problems. An Intranet is the integration of **Internet** paradigms and standards with existing network, desktop and server infrastructures. In other words, it is using the **Internet** 's capability of linking one set of information with another on a **company** 's own network. This system is, to a certain extent, closed and so is reasonably secure. In a **company** with widespread offices, the connections will already be in place via, at worst, ordinary telephone lines or, at best, fibre optic cable. At the moment, all sorts of computer applications take place over these links. So why not training?. (1 Refs)

Subfile: D

Descriptors: computer based training; **Internet** ; internetworking

Identifiers: Intranets; training opportunity; **Internet** ; training materials; standards; server infrastructures; telephone lines; fibre optic cable; computer applications; computer based training

Class Codes: D2030 (Education and training); D5020 (Computer networks)

and intercomputer communications)  
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**9/5/8 (Item 8 from file: 2)**

DIALOG(R)File 2:INSPEC

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05324828 INSPEC Abstract Number: B9302-2210D-043

**Title: A membrane system for semi-aqueous defluxing**

Author(s): Smiley, B.C.; Fritz, H.L.; Stewart, R.K., Jr.

Author Affiliation: Du Pont Electronics, Research Triangle Park, NC, USA

Conference Title: Proceedings of the Technical Program. NEPCON West '92  
p.281-92 vol.1

Publisher: Cahners Exposition Group, Des Plaines, IL, USA

Publication Date: 1992 Country of Publication: USA 3 vol. 1861 pp.

Conference Date: 23-27 Feb. 1992 Conference Location: Anaheim, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Many printed wiring board assemblers and metal **fabricators** are investigating new cleaning **agents** and technologies to replace CFCs. Semi-aqueous cleaning is a good alternative because it **provides** superior performance and ecological advantages over CFC-113/methanol and aqueous cleaning technology. In the semi-aqueous process, printed wiring board assemblies are cleaned in an organic solvent. The cleaning solvent is then rinsed from the parts with water. The solvent is insoluble in water, and the vast majority of the solvent can be separated from the water by decantation. Rinse water, with the small amount of **remaining** organic **material** can usually be discharged to a POTW. However, many users prefer to recycle the rinse water. Closed-loop technology based on membrane separation techniques is particularly suited for treating rinse water effluent from semi-aqueous installations. Data from Du Pont's membrane technology development program are presented. (10 Refs)

Subfile: B

Descriptors: printed circuit manufacture; surface treatment

Identifiers: rinse water recycling; Du Pont; closed-loop technology; membrane system; semi-aqueous defluxing; printed wiring board assemblers; cleaning **agents**; ecological advantages; decantation; separation techniques; effluent

Class Codes: B2210D (Printed circuit manufacture)

**9/5/9 (Item 9 from file: 2)**

DIALOG(R)File 2:INSPEC

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04702452 INSPEC Abstract Number: C90055878

**Title: Materials handling technology in the manufacturing plant (annual survey)**

Author(s): Kuprat, T.

Journal: VDI-Z vol.132, no.6 p.98-106

Publication Date: June 1990 Country of Publication: West Germany

CODEN: VZGTAJ ISSN: 0042-1766

Language: German Document Type: Journal Paper (JP)

Treatment: Bibliography (B); Practical (P)

Abstract: Manufacturing structures are characterized by the functionality of their logistic structures as, in spite of CIM and JIT, operations such as transport, conveyance, storage and buffering remain basic components of any manufacturing process. This is why the internal materials handling and transport technology is a key point in efforts aimed at rationalizing



material flow. **Manufacturers** offer integrated, highly automated but still modular and flexible systems. The individuality of the problem solution as well as a growing use of EDP are also characteristic features of the **material** flow components **available** on the market. The paper **provides** guidance about materials handling technology in manufacturing plants. (134 Refs)

Subfile: C

Descriptors: **computerised** materials handling; reviews; stock control data processing

Identifiers: **computerised** materials handling; modular systems; manufacturing plant; logistic structures; transport; conveyance; storage; buffering; flexible systems; EDP

Class Codes: C3320 (Materials handling); C7420 (Control engineering); C7160 (Manufacturing and industry)

9/5/10 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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773358 ORDER NO: AAD82-07408

**P.A.C.A.: PARENTS AS CHANGE AGENTS FOR CHILDREN WITH READING PROBLEMS**

Author: HERMAN, FLORENCE BROWN

Degree: PH.D.

Year: 1981

Corporate Source/Institution: SAINT LOUIS UNIVERSITY (0193)

Source: VOLUME 42/10-A OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 4377. 94 PAGES

Descriptors: EDUCATION, READING

Descriptor Codes: 0535

The P.A.C.A. program, Parents as Change **Agents** for Children with Reading Problems, was designed to actively involve parents in their children's success in the reading process at home in order to strengthen and reinforce skills in reading, foster student motivation, interest in school and a positive school/home relationship.

The targeted populations are those in grades two and three and scored below the 50th percentile rank in reading comprehension on any standardized achievement test given by the particular school and teacher's judgement. The participants in this project came from five Public and two Parochial schools of a small urban community in Illinois. There were thirty-two children and parents who participated in the program.

The P.A.C.A. program consisted of three component parts: the child, parent and teacher. The unique feature is that parent and child attended class together and learned and practiced together immediately after instruction under the supervision of the facilitator. Parents agreed to tutor their child a minimum of fifteen minutes four evenings a week at home. Teachers of the participating students were encouraged to take part as observers so that they may strengthen their skills and gain a better understanding of the disabled reader.

Program Design. There were two sessions each lasting ten weeks with a lapse (delayed time) of six weeks due to holidays and inclement weather. Each session was held at the same centralized elementary school every Monday evening from 6:30 - 8:30 P.M. The students were divided into two sections. Each section lasted for one hour. Assignment to the groups was made based upon the results from the Gates MacGinitie Reading Test, Phonics and Spelling Assessment Tests. A contract was signed by parents and students to attend twenty weeks to insure significant improvement and growth in their reading skills.

The reading program consisted of a multi-sensory approach using the visual, auditory, kinesthetic-motor (VAK-m) channels in association

with each other.

A wide variety of instructional **materials** was **made available** to parent/child teams to use during their home tutorial sessions. Some of these materials are: Sullivan's Programmed Readers; Comprehension Make and Take Activities - Games; Dolch Sight Work List; Barnell Loft Skill Books; New Practice Readers; Phonics Learning Packets (produced by faciliator).

When the second session started in March, the continuing and new students were separated for comparison purposes. Both groups were given the Gates MacGinitie Reading Test again. The new group was given the Phonics and Spelling Assessment tests to determine their needs.

Prior to the tenth week in each session, post-tests were given to evaluate the student's growth. A conference was held with all **parties** to discuss the results and any problems that may have occurred during the home tutorial sessions or in school.

Parents were asked to respond to a questionnaire to gain their input about the program. Also, they kept a daily log of the work completed during their home sessions which they turned in weekly.

Conclusions. A t test at the 0.05 level revealed superior gain by the twenty week students than the ten week students.

The delayed time of six weeks did not alter the progress of the continuing students. Gain was apparent after more than ten weeks among those who continued, but significant gain was not apparent after ten weeks.

Although there was no significant gain between the pre- and post-test of students who were in the program for ten weeks, some individuals showed better than a year's growth.

There was significant difference in the performance of those students with parents who were strong participants in the program compared with those students whose parents were weak participants in the program.

9/5/11 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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2609165 H.W. WILSON RECORD NUMBER: BAST97047176

**Beyond buzzwords**

Broughton, Anne Claire;

Recycling Today (Cleveland, Ohio: 1992) v. 35 (July 1997) p. 30-2+

DOCUMENT TYPE: Feature Article ISSN: 1096-6323 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: The importance of employee empowerment and customer-oriented service at Hummelstein Iron & Metal is discussed. Its new nonferrous and nonmetallics recycling center emphasizes the image of the **company** as a community **service provider** because its design was modeled on a convenience store. The **company** initiated a joint venture between itself, the university, a local technical institute, and the Adult Education Center to train employees in general problem-solving skills, teambuilding skills, and technical skills. This has given employees a real sense of empowerment.

DESCRIPTORS: **Scrap metal** industry--Arkansas; Hummelstein Iron & Metal Inc;

9/5/12 (Item 2 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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2608977 H.W. WILSON RECORD NUMBER: BAST95061352

**Gaining the export edge**

Broughton, Anne Claire;

Recycling Today (Cleveland, Ohio: 1992) v. 33 (Sept. 1995) p. 54+

DOCUMENT TYPE: Feature Article ISSN: 1096-6323 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: Making the most of available equipment, technology, and facilities can benefit scrap exporters in a competitive environment. Although stronger domestic demand has reduced the amount of ferrous scrap exported from the U.S. during the past 18 months or so, it is still expected that developing economies in the Far East and on the Pacific Rim will **provide** strong scrap demand for the foreseeable future. This strong demand is not expected to significantly increase the number of scrap processors and **brokers** involved in export activities, but the fierce competition for export opportunities will cause exporters to look for the best available equipment and location in order to operate in the most efficient possible manner. Personnel from various **companies** involved in exporting describe their equipment, technology, and facilities.

DESCRIPTORS: **Scrap metal** --Marketing; **Scrap metal** --Transportation;

**9/5/13 (Item 3 from file: 99)**

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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2551159 H.W. WILSON RECORD NUMBER: BAST01105759

**ToolingU delivers training on demand**

Lorincz, Jim;

Tooling & Production v. 67 no7 (Oct. 2001) p. 16

DOCUMENT TYPE: Feature Article ISSN: 0040-9243 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: The writer describes ToolingU, an **online** tool for training in **metalworking**. This **Internet**-based system facilitates convenient and flexible access to audio, textual, and pictorial information, along with video clips, and allows students to **communicate** directly with tutors. At present, the courses **available** are **metal** cutting, work-holding, computer-numeric control, and materials.

DESCRIPTORS: **Internet** --Educational use; Metal workers--Training;

**9/5/14 (Item 4 from file: 99)**

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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2462920 H.W. WILSON RECORD NUMBER: BAST01021574

**Innovation and tradition**

Metallurgia v. 68 no1 (Jan. 2001) p. 13

DOCUMENT TYPE: Feature Article ISSN: 0141-8602 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: Successful e-traders will not simply transfer their existing business on to the **internet**. They will find ways to use the new tool to improve the efficiency and effectiveness of their business. Scrapfinder **offers** a solution to those **companies** that need to source **scrap metal** quickly. Reprinted by permission of the publisher.

DESCRIPTORS: Electronic commerce; **Scrap metal** industry;

**9/5/15 (Item 5 from file: 99)**

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2006 The HW Wilson Co. All rts. reserv.

1585968 H.W. WILSON RECORD NUMBER: BAST97053963

**The right formula for training**

Paul, Lauren Gibbons;

Datamation v. 43 (Sept. '97) p. 96-8+

DOCUMENT TYPE: Feature Article ISSN: 0011-6963 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: In order to deliver information technology training just-in-time, today's trend is to break up monolithic, instructor-led courses and **provide** training in **sections** that are **available** to employees whenever they want them. Often combined with traditional instructor-led training, **companies** are employing such alternative methods as **Web**-based training for cheaper, quicker, and more flexible training. A discussion is presented on the alternative training techniques used by the following **companies**: Monsanto, American Express, Amdahl Education Solutions Group, and U.S. Cellular Corp., and a table presents the various alternative training options available.

DESCRIPTORS: Information technology; Computer personnel--Training;

**9/5/16 (Item 1 from file: 474)**

DIALOG(R)File 474:New York Times Abs  
(c) 2006 The New York Times. All rts. reserv.

07767590 NYT Sequence Number: 083909000305

**COMMERCIAL PROPERTY/INCUBATORS: PROVIDING A HELPING HAND TO INTERNET START-UPS**

Holusha, John

New York Times, Col. 1, Pg. 9, Sec. 11

Sunday March 5 2000

DOCUMENT TYPE: Newspaper JOURNAL CODE: NYT LANGUAGE: English

RECORD TYPE: Abstract

ABSTRACT:

Proliferation of new-media and other **Internet**-related **companies** in New York City and scarcity of **available** office **space** are creating new type of business: incubators that **provide** prebuilt space to start-up **companies**, often in return for right to buy stock at favorable prices; real estate executives say approach mirrors tactic of venture-capital firms; some of venture-capital firms backing **Internet** start-ups are also getting into incubator business; photo (M)

SPECIAL FEATURES: Photo

DESCRIPTORS: Office Buildings; Computers and the **Internet**; Venture Capital; Office Buildings

PERSONAL NAMES: Holusha, John

GEOGRAPHIC NAMES: New York City

**9/5/17 (Item 2 from file: 474)**

DIALOG(R)File 474:New York Times Abs  
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00574115 NYT Sequence Number: 036460751110

(NY Times survey of effect of Cong investigations on CIA's authority and ability to produce professional intelligence estimates and repts finds CIA's work unimpeded. Key CIA officials believe Cong investigating coms will recommend imposition of more stringent controls on clandestine intelligence activities rather than a ban. Sources cite some areas in which they feel there has been some impairment of operations. Say some Amer cos that provided cover jobs for agents in US have curtailed their cooperation. Say small number of large Amer corps that permitted CIA to use foreign offices and branches for cover jobs have become less enthusiastic about permitting CIA to have direct access to employees overseas. Say some of agency's personnel still on clandestine assignments overseas have suffered from lowered morale and confusion about what is permissible in field. Say there has been some reluctance by various officials and operatives in foreign intelligence services to cooperate. Say there have been scattered instances of less cooperation at high-level govt-to-govt interchanges of information. Boston Globe repts last mo that Amer officials are treating top-secret Brit information as being 'on loan' to avoid possibility of its being subpoenaed by Cong or cts as 'property' of CIA. All sources agree that intelligence information, including most sensitive material available, is still flowing in. Notes testimony by William Nelson, CIA dir of operations. Several CIA officials cited major c

HERSH, SEYMOUR M

New York Times, Col. 6, Pg. 1

Monday November 10 1975

DOCUMENT TYPE: Newspaper; Survey JOURNAL CODE: NYT LANGUAGE: English

RECORD TYPE: Abstract

DESCRIPTORS: CORPORATIONS; ESPIONAGE; INTERNATIONAL RELATIONS; MURDERS AND ATTEMPTED MURDERS; POLITICS AND GOVERNMENT; SURVEYS AND SERIES; INSIDE THE **COMPANY** (BOOK)\$55:CONGRESS (INVESTIGATIONS AND INVESTI; HOUSE SELECT COMMITTEE ON INTELLIGENCE; INTELLIGENCE AGENCY, CENTRAL (CIA); SENATE SELECT COMMITTEE ON INTELLIGENCE

PERSONAL NAMES: HERSH, SEYMOUR M; AGEE, PHILIP B F; CHURCH, FRANK (SEN); NELSON, WILLIAM (DEPUTY DIR); PIKE, OTIS G

GEOGRAPHIC NAMES: UNITED STATES

9/5/18 (Item 1 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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09660265

Tiscali tjente 40 mio pV salg af ejendom

Denmark: Tiscali sold property

B6rsen (BSN) 20 dec 2001 Online

Language: DANISH

the **Internet service provider** Tiscali has sold real estate to a value of DKr340mn(US\$41mn) to PFA, Danish pension insurance **company**. The property is situated at KalkbrUnderihavnen, Copenhagen. Tiscali that bought the property for DKr300mn will lease 3000 square metres of office **space**, and the **remaining** 9000 will be leased by SAP, e-business solutions **provider**.

COMPANY: TISCALI; SA; PFA

EVENT: Capital Expenditure (43);

JMB

30-Mar-06

COUNTRY: Denmark (4DEN);

**9/5/19 (Item 2 from file: 583)**

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09454256

Juno **Online** to make jump into virtual supercomputing

US: JUNO **ONLINE** TO **OFFER** SUPERCOMPUTING

Wall Street Journal Europe (WSJ) 05 Feb 2001 p.26

Language: ENGLISH

Juno **Online** , the third biggest **Internet service provider** (ISP) in the US, announced 1 February 2001 that it is to commence trials of its Juno Virtual Supercomputer in a bid to launch **online** supercomputing services. The process, known as distributed computing, would require Juno to keep their computers on constantly. Juno would then hire out **unused space** and time to **third parties** looking to solve computational problems. Charles E. Ardai, the chief executive and president of the ISP, said that the move is an additional way of obtaining revenue from its subscriber base. Juno subscribers may be asked to participate in the programme if they want free access to the **Internet** . Mr Ardai said that a fee could be imposed on those not wanting to participate.

COMPANY: JUNO **ONLINE**

EVENT: Planning & Information (22);

COUNTRY: United States (1USA);

**9/5/20 (Item 3 from file: 583)**

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09400122

Manche Software lUsst sich bereits auf dem **Internet** mieten

GERMANY: NEW ASP **OFFERS**

Handelsblatt (HT) 08 Nov 2000 p.24

Language: GERMAN

On the occasion of the Systems 2000 fair, which is currently taking place in Munich, application service **providing** (ASP) **offers** are being presented. Munich-based Einsteinet is the first German ASP **company** with an own optical fibre network. Since 6 November 2000, Einsteinet has been leasing software, computer capacity and IT services. In Germany, Einsteinet has its own, about 3,000 km long optical fibre ring for broadband services. Nortel Networks supplied the technical infrastructure. German Deutsche Telekom AG will market the "one-to-one enterprise software" produced by Broadvision as ASP **offer** . The **offer** is suitable for **companies** which **offer** their customers individual **internet** shops. With the help of the software, the requirements of the buyers can be fulfilled. Krefeld-based Victorvox concluded a licence contract for the leasing out software via the **internet** with Microsoft. At a price of DM 64 per month, MS Office 2000 can be used **online** worldwide. In addition, 25 MB of storage **space** are **available** in the computer centre.

COMPANY: MICROSOFT; VICTORVOX; BROADVISION; DEUTSCHE TELEKOM; NORTEL NETWORKS; EINSTEINET

PRODUCT: Telephone Communications (4811); Computer Services (7370);

EVENT: Product Design & Development (33); Plant/Facilities/Equipment (44); **Company** Formation (12); Company Formation (14);  
COUNTRY: Germany (4GER);

**9/5/21 (Item 4 from file: 583)**

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06232019

IBM will add **Web** services for Thai customers

THAILAND: VALUE-ADDED **INTERNET** SERVICES FROM IBM  
The Nation (XBO) 21 Nov 1995 P.F2  
Language: ENGLISH

As a progression from IBM Global Network's (IGM) plan to **offer Internet** connectivity in Thailand by the end of 1995, IBM (Thailand) announced that value added **Internet** services, which include the setting up of http sites, the updating of homepages as well as the design of databases and homepages, will be available to clients in 1996. The **company**'s Professional Service operation unit will oversee the new business segment. In addition, IBM (Thailand) plans to **offer** a content hosting service to enable clients to use the **space available** on IBM's Internet Server to store their information for the **Internet**. The service is targeted at clients who do not have their own **Internet** nodes.

COMPANY: IBM GLOBAL NETWORK; IBM (THAILAND)

PRODUCT: Wide Area Network Equipment (3661WN); Database Vendors (7375);  
EVENT: Product Design & Development (33);  
COUNTRY: Thailand (9THA); United States (1USA);

**9/5/22 (Item 5 from file: 583)**

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06186858

SIMSMETAL SCORES RECORD \$60M PROFIT

AUSTRALIA: SIMSMETAL PROFIT UP  
The Australian (XAA) 03 Aug 1995 P. 24  
Language: ENGLISH

Simsmetal Ltd posted an annual profit of some AU\$ 60.4 mn in 1995. The core reasons being the strong non-ferrous metal prices, improvements in its Australian manufacturing divisions & higher returns from its operations in United States. Non-ferrous metal alone contributed some 37% of the group's profit, up from 1994's 17%. Whereas **aggregate** sales volume recorded a 14% surge to over 2.8 mn tonnes. Mr Crabb, the managing director of the largest **scrap metal** merchant in Australia believed that demand & prices for non-ferrous metal would remain strong as global arc furnace steel production is set to continue its firm growth. In addition, its earnings from the US would be strengthened by the 10-year deal with Birmingham Steel Corp. Under the agreement, Simsmetal will **provide scrap metal** brokerage & mill services to the latter's plant near Chicago. Besides this, Simsmetal intends to extend its presence in Europe. And it believed that it could attain economies of scale via rationalising & restructuring its Affinity Metals operations.

COMPANY: BIRMINGHAM STEEL; SIMSMETAL

PRODUCT: Nonferrous Metals (3330);  
EVENT: **Companies** Activities (10); Company Reports & Accounts (83);  
COUNTRY: Australia (9AUS);

**9/5/23 (Item 6 from file: 583)**

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06160222

Forwarder Naigai Nitto to build \$30m Jurong warehouse

SINGAPORE: NAIGAI NITTO TO BUILD WAREHOUSE

Business Times (XBA) 5 Jun 1995 P.1

Language: ENGLISH

To cope with the increasing demand for warehousing space, a S\$ 30 mn warehouse will be built by Naigai Nitto (S), a local logistics arm of Japanese forwarder Naigai Nitto Co at Toh Guan Road, Jurong which will be in operation by July 1996. This new warehouse will be linked to the **company** 's overseas offices so that they can monitor cargo status for logistics planning and the offices will be able to know the amount of storage **space available** at certain point in time. Cargo consolidation will be the **company** 's main focus. With a staff force of 130 and 16 years of experience, the Singapore **company** manages a 30,000 sq metres of warehousing space. It had moved from a freight forwarding to being a logistics consultant, **providing** door-to-door sea and air freight services, advising clients on production scheduling, packaging, warehousing, space planning and distribution. The **company** 's sales turnover for 1994 stood at S\$30 mn. It has 11 offices in Asia and branches in New York, Los Angeles, Southampton and Rotterdam as well as **agents** operating worldwide.

COMPANY: NAIGAI NITTO (S)

PRODUCT: Business & Management Consulting (7392); Freight Transport (4002); Freight Forwarding (4712FF); Warehousing Construction (1541WC); Warehousing (4220);

EVENT: **Companies** Activities (10); Capital Expenditure (43);

COUNTRY: Singapore (9SIN);

**9/5/24 (Item 7 from file: 583)**

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05952909

**Computerised** directory on builder launched

MALAYSIA: **COMPUTERISED** DATABUILD INTRODUCED

The Star (XAT) 4 Mar 1994 p.6

Language: ENGLISH

A **computerised** directory for builders called "DataBuild" has been introduced by Specific Impact Sdn Bhd of Malaysia. The directory **provides** information on building **materials** and services **available** from 400 **companies** in Malaysia and Singapore. It was believed to be the biggest builders' directory ever compiled in Malaysia. No charge will be imposed on those who want to make a copy of DataBuild for their own reference. Specific Impact can be contacted at 03-2536200.

COMPANY: SPECIFIC IMPACT



PRODUCT: Publishing NEC (2740); Construction (1500);  
EVENT: Product Design & Development (33); Marketing Procedures (24);  
COUNTRY: Malaysia (9MAO);

**9/5/25 (Item 8 from file: 583)**

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04896073

HP has SNMP network program

UK - HEWLETT-PACKARD LAUNCHES SNMP **AGENT** SOFTWARE  
Connexion (CXN) 5 February 1992 p6

Hewlett-Packard has launched extensible SNMP **agent** software, designed to enable SNMP network management tools to monitor printers, applications and users. The software is designed to operate with OpenView, the **company**'s

network management tool, to inform LAN administrators on **available** disk **space**, status of printer pools and number of users. The **agent** functions on HP/UX, Hewlett-Packard's version of Unix, as well as Sun workstations interacting with such SNMP management stations as OpenView Node Manager. The software features over 60 integral SNMP objects, so that users can employ it to tailor network application to **match** their LAN characteristics. The new software will be bundled with HP's 9000 Model 425e campus management station and the Model 723, enterprise management station. The **company**'s OpenView application development programme has been extended and Hewlett-Packard hopes to build on the system's installed base of 6k sites. Some 40 OpenView applications have been developed by 75 developers participating in the programme.

COMPANY: HEWLETT-PACKARD

PRODUCT: Network Management (3661NM);  
EVENT: NEW PRODUCT EXTENSION (33); NEW PRODUCT DEVELOPMENT (33);  
COUNTRY: United Kingdom (4UK); OECD Europe (415); NATO Countries (420);  
South East Asia Treaty Organisation (913);

**9/5/26 (Item 9 from file: 583)**

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04092163

RARE MARKET **MATERIAL** TO BE **AVAILABLE** **ONLINE**

US - RARE MARKET **MATERIAL** TO BE **AVAILABLE** **ONLINE**  
Information World Review (IWR) 0 February 1991 p5  
ISSN: 0950-9879

Strategic Intelligence Systems (SIS) International (US) should soon be supplying local market information from E Europe and the Third World **online**. By early summer-1991, SIS International expects to have made JV arrangements with local research **companies** in Mexico, Thailand, India, the USSR, Poland, Hungary, Czechoslovakia and Yugoslavia. Information **provided** by these firms on industries, **companies**, products, pricing and trading activities will be available on a dial-up basis from SIS's computer. Since launching its dial-up **online** service in 1989, SIS International has abolished sign-up and download charges as well as minimum monthly charges.

PRODUCT: New Databases (7375ND); Computer Services (COSV);  
EVENT: LAND USE/PURCHASE/SALES (41);  
COUNTRY: United States (1USA); NATO Countries (420); South East Asia  
Treaty Organisation (913);

**9/5/27 (Item 10 from file: 583)**

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00116075

NEW PLATEMAKER FROM ROTAPRINT

UK - NEW PLATEMAKER FROM ROTAPRINT

Litho Week (LW) 19 February 1986 p31

The new Rotaprint PM701 platemaker is described by the **company** as a "quantum leap" in plate technology. It can be used with any small offset press, and is sold as a system including plates, chemicals and platemakers. The system is jointly produced by Rotaprint and Iwatsu. Plate size is from A4 to B3 producing 100 plates/w, at 4.5 plates/min **on line** -only and 2.5 plates/min **on line** and half-tone work. Plate **materials available** are LX for over 5k impressions, SX for over 7k and FX for over 10k. The 701 has resolution of 133 lines/in, taking the **company** away from traditional duplicating business. The unit **matches** silver quality and costs 65% less per plate. The Iwatsu process uses part fusion for liquid toner, a development which is expected to have great potential. The 701 could be developed to produce colour separations from transparencies, without a scanner.

PRODUCT: Printing Trades Machinery (3555);  
EVENT: PRODUCTS, PROCESSES & SERVICES (30);  
COUNTRY: United Kingdom (4UK); Japan (9JPN); OECD Europe (415); NATO  
Countries (420); South East Asia Treaty Organisation (913); Pacific Rim  
(914); OECD Pacific (915);

Set	Items	Description
S1	14435	(SCRAP OR BLANK OR UNUSED OR USABLE OR REMAINING OR AVAILABLE OR LEFT()OVER OR UNCUT OR UNPUNCH? OR UN() (CUT OR PUNCH? - OR SHEAR?)) (2N) (METAL OR MATERIAL? OR SECTION? OR SPACE OR PIECE?)
S2	2400486	MATCH??? OR (MAK??? OR MADE) () (AVAILABLE OR ACCESSIBLE) OR OFFER??? OR COMMUNICATE OR COMMUNICATED OR COMMUNICATING OR PROVIDID???
S3	3169	S1 AND S2
S4	1973960	FABRICATOR? OR MANUFACTURER? OR METALWORK? OR COMPAN??? OR PARTIES
S5	266	S3 AND S4
S6	980694	SERVICE() PROVIDER? OR (3RD OR THIRD) () PART??? OR INTERMEDIAR? OR AGGREGAT? OR AGENT? ? OR BROKER? ? OR MIDDLEMAN OR MIDDLEMEN OR NEGOTIATOR? OR MEDIATOR? OR WEBSITE? OR WEBPAGE? OR WEB() (PAGE? OR SITE?) OR ONLINE OR ON()LINE OR INTERNET OR WEB OR COMPUTER
S7	39	S5 AND S6
S8	27	S7 NOT PY>2001
S9	27	RD (unique items)
S10	1480	(UTILIZ? OR OPTIMIZ?) (2N) (NESTING OR SKELETON OR LAYOUT?)
S11	3	S10 AND S1
S12	3	RD (unique items)
File	2:INSPEC 1898-2006/Mar W3	(c) 2006 Institution of Electrical Engineers
File	35:Dissertation Abs Online 1861-2006/Mar	(c) 2006 ProQuest Info&Learning
File	65:Inside Conferences 1993-2006/Mar 30	(c) 2006 BLDSC all rts. reserv.
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File	475:Wall Street Journal Abs 1973-2006/Mar 29	(c) 2006 The New York Times
File	583:Gale Group Globalbase(TM) 1986-2002/Dec 13	(c) 2002 The Gale Group

12/5/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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08496696 INSPEC Abstract Number: C2003-02-6150C-017

**Title: Compiler-directed optimizations for improving the performance of I/O-intensive applications**

Author(s): Kandemir, M.T.

Author Affiliation: Dept. of Comput. Sci. & Eng., Pennsylvania State Univ., University Park, PA, USA

Journal: International Journal of Parallel and Distributed Systems & Networks vol.5, no.2 p.52-65

Publisher: Acta Press,

Publication Date: 2002 Country of Publication: USA

ISSN: 1206-2138

SICI: 1206-2138(2002)5:2L:52:CDOI;1-P

Material Identity Number: H346-2002-003

Language: English Document Type: Journal Paper (JP)

Treatment: Bibliography (B); Practical (P)

Abstract: An important but difficult goal of compiler optimization research is to generate efficient code for applications that operate on large datasets. This is particularly true for out-of-core codes that deal with very large quantities of disk-resident data. Writing an out-of-core version of a given application is more than just increasing the dataset size and extending the loop bounds. It requires careful choreographing of the flow of data between disk storage and main memory, partitioning of the **available** main memory **space** among datasets, and restructuring of code using techniques such as loop permutation and iteration space tiling. This article describes transformation techniques for out-of-core programs based on exploiting locality using a combination of loop and data transformations. More specifically, we describe how an optimizing compiler can improve the performance of the code by determining appropriate file layouts for out-of-core arrays, and finding suitable loop transformations in a unified framework. In addition to optimizing a single loop nest, our solution can handle a sequence of loop nests. We also show how to generate code when the file **layouts** are **optimized** and how to generalize the technique to an interprocedural setting. Experimental results obtained on a distributed-memory, message-passing multiprocessor machine demonstrate marked improvements in performance due to the optimizations described in this work. (57 Refs)

Subfile: C

Descriptors: file organisation; input-output programs; optimising compilers; performance evaluation

Identifiers: compiler optimization; transformation techniques; out-of-core programs; I/O-intensive applications; file layouts; loop transformations; distributed-memory; message-passing; multiprocessor; performance

Class Codes: C6150C (Compilers, interpreters and other processors); C6120 (File organisation); C6150J (Operating systems)

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12/5/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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08080593 INSPEC Abstract Number: C2001-12-7440-045

**Title: Stamping blank optimal layout and coil slitting widths for single and multiple blanks**

Author(s): Nye, T.J.

Author Affiliation: Dept. of Mech. Eng., McMaster Univ., Hamilton, Ont.,

## Canada

Journal: Transactions of the ASME. Journal of Engineering Materials and Technology vol.123, no.4 p.482-8

Publisher: ASME,

Publication Date: Oct. 2001 Country of Publication: USA

CODEN: JEMTA8 ISSN: 0094-4289

SICI: 0094-4289(200110)123:4L:482:SBOL;1-A

Material Identity Number: T189-2001-004

Document Number: S0094-4289(01)01004-0

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P); Theoretical (T)

Abstract: In stamping, operating costs are dominated by raw material costs, which can typically reach 75 percent of total costs in a stamping facility. In this paper, material utilization efficiency is modeled by considering two primary sources of **scrap : material** cut away from the exterior of each blank on the strip and off-cuts of unusable narrow strips generated when wide master coils are slit into strips for subsequent stamping. Based on these, **layout optimization** techniques for minimizing raw material usage are described that predict the optimal blank orientation on the strip and the optimum slitting width for the strip. In addition, methods are given for determining optimal common strip widths for multiple parts, both for dependent and independent demand. These algorithms are ideally suited for incorporation into die design CAE systems. (27 Refs)

Subfile: C

Descriptors: CAD; computer aided engineering; manufacturing processes; mechanical engineering computing

Identifiers: stamping blank optimal layout; coil slitting widths; multiple blanks; single blanks; operating costs; raw material costs; stamping facility; material utilization efficiency; scrap; cut away material; strip; off-cuts; unusable narrow strips; wide master coils; **layout optimization** techniques; raw material usage; optimal blank orientation; optimum slitting width; optimal common strip widths; multiple parts; independent demand; dependent demand; algorithms; die design CAE systems

Class Codes: C7440 (Civil and mechanical engineering computing); C7480 (Production engineering computing)

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12/5/3 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01432107 ORDER NO: AADAA-I9530463

**OPTIMAL PRODUCT LAYOUT USING SIMULATED ANNEALING**

Author: SZYKMAN, SIMON

Degree: PH.D.

Year: 1995

Corporate Source/Institution: CARNEGIE-MELLON UNIVERSITY (0041)

Source: VOLUME 56/05-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 2830. 123 PAGES

Descriptors: ENGINEERING, MECHANICAL

Descriptor Codes: 0548

This dissertation sets forth the thesis that computational tools are able to automate the synthesis of optimal product layouts. The product layout problem can be divided into two major subproblems: component **layout optimization** and routing optimization. The object of the component layout problem is to find the optimal placement of a set of three dimensional components, given an **available space** and a set of spatial constraints on the design. The routing problem consists of finding the best

paths for pipes or wires that are required to connect the components in a specified manner. Product layout tasks appear across a broad spectrum of engineering domains. Examples include layout of computers, automobile engine compartments, mechanical and electromechanical assemblies, aerospace applications, etc.

The approaches to both **layout** and routing **optimization** in this research utilize simulated annealing, a stochastic optimization technique that has been used extensively in the electrical engineering domain for circuit **layout optimization**. Simulated annealing was initially considered for this research because of similarities between circuit layout and product layout and has proven to be a promising approach to product **layout optimization**.

Packing problems, a subset of general layout problems where spatial constraints on components are not considered, are addressed initially. A simulated annealing-based approach to component packing is developed and validated by solving a set of benchmark problems with known global optima.

Because spatial constraints are not considered in packing problems, this formulation is inadequate for most layout problems that are of interest from an engineering perspective. The packing algorithm is extended to a general layout algorithm by implementing a constraint language that enables a designer to impose various types of spatial constraints on component placement. To address the need for routing **optimization** in product **layout** problems, a simulated annealing-based routing algorithm is developed. This routing algorithm is then combined with the layout algorithm to produce an integrated approach to product **layout optimization**.

The problems addressed by this research have practical application in industry. Through an ongoing collaboration with industry, several elements of this research are currently being incorporated into a new generation of computational design tools.

Set	Items	Description
S1	185027	(SCRAP OR UNUSED OR USABLE OR REMAINING OR AVAILABLE OR LEFT()OVER OR UNCUT OR UNPUNCH? OR UN() (CUT OR PUNCH? OR SHEAR?-)) (2N) (METAL OR MATERIAL? OR SECTION? OR SPACE OR PIECE?) OR - BLANK? ? OR SKELETON
S2	12402968	MATCH??? OR (MAK??? OR MADE) () (AVAILABLE OR ACCESSIBLE) OR OFFER??? OR PROVID???
S3	19837343	FABRICATOR? OR MANUFACTURER? OR METALWORK? OR COMPAN??? OR PARTIES
S4	19779	S1(S)S2
S5	4593	S4(S)S3
S6	2085928	MATCH??? OR (MAK??? OR MADE) () (AVAILABLE OR ACCESSIBLE)
S7	508	S6(S)S1(S)S3
S8	14745	(SHEET OR FABRICAT???) (N)METAL
S9	2	S7 AND S8
S10	2	RD (unique items)
File	20:Dialog	Global Reporter 1997-2006/Mar 30 (c) 2006 Dialog

**10/3,K/1**DIALOG(R)File 20:Dialog Global Reporter  
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38829072 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Event Brief of Nucor 3rd Quarter of 2004 Conference Call - Part 1**

FAIR DISCLOSURE WIRE

October 21, 2004

JOURNAL CODE: WFDW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 4136

... ton level yielded by the formula mechanism. 3. With this one-month freeze of the **sheet metal** surcharge, Co. is both maintaining the integrity of the surcharge as a raw material cost-recovery mechanism and maintaining the strong metal margin spreads at our sheet mills. 4. Should this divergence continue, NUE plans to examine alternative indexes to use in calculating the sheet mill group surcharge. 5. If this divergence reverse itself, NUE reserves the right to rescind, in any following months, the freeze implemented for Nov. and resume the use of the normal surcharge mechanism. 5. The American Metal Market Chicago Shredded consumer buying price index continues to effectively track changes in raw material costs at Co.'s bar, beam and plate mills. 1. Accordingly, the raw material surcharge for these products increased to \$123 per ton for Nov. from \$83 per ton in Oct. 2. This move tracked the \$40 per ton increase month-to-month in the underlying Chicago shredded scrap price index. 3. Nucor Steel products businesses posted substantial earnings improvements on both a QoverQ and a YoverY basis. 4. Vertical integration between Co.'s steel mills and downstream businesses will continue to be a key contributor to Co.'s future growth prospects and its ability to earn attractive returns on shareholders' capital. 6. Nucor Steel reviewed downstream steel products as a growth business for NUE. S3. Guidance (...from \$158m at year-end 2003. 6. The objective of LIFO inventory accounting is to **match** the most recently occurred cost with current revenues. 7. Generally in times of rising costs, such as the current environment, NUE will record LIFO expense. 8. In times of decreasing costs, Co. will record a LIFO credit. 5. Pre-Operating & Start-Up Costs: 1. For 3Q04: \$4.5m, down from \$31.3m in 3Q03. 2. For the first nine months of 2004: \$21.3m, down from \$91.5m in 2003. 3. In 2004, these costs were primarily from the continuing start-up of the Castrip facility at Crawfordsville sheet mill. 4. In 2003, these costs were primarily from the start-up of the Decatur sheet mill and the Castrip facility. 6. Balance Sheet: 1. 3Q04 GM was 24.9% vs. 3Q03 GM of 4.4% and 19.1% in 2Q04. 2. Earnings before income taxes were \$138 per ton for 3Q04, up from \$87 per ton in 2Q04 and up from \$4 per ton in 3Q03. 3. For the first nine months of 2004, earnings before income taxes were \$87 per ton. 4. 3Q04 effective tax rate was 34.6% vs. 15.3% in 3Q03. 1. The higher tax rate is primarily due to the effect of increased pretax earnings. 5. For the first nine months of 2004, CapEx was \$198m and depreciation expense was \$292m. 1. For the full-year of 2004, Co. projects CapEx of approx. \$230m and depreciation expense of approx. \$385m. 6. Effective with the Nov. 11 payment, NUE increased its regular quarterly cash dividend 24% to \$0.13 per share. 1. This is the second increase in the cash dividend in 2004 for a total increase of 30%. 2. NUE has increased its cash dividend every year since it began paying dividends in 1973. 7. Cash provided by operating activities was \$895m for the first nine months of 2004, up from \$368m in the year-ago period. 8. Cash and short-term investments totaled \$758m at the close of 3Q04, up from \$350m ...and short-term investment position was held by 51%-owned joint venture, Nucor-Yamato Steel **Company**. 10. Increasing long-term returns on invested capital is the objective of Co.'s growth...

... is increasing. 6. With the majority of Co.'s available turns under firm



contracts, the **sheet metal** group is well positioned to weather the short-term dip in the spot market. 7. Expect the market to rebound in the traditionally strong 1Q and remain strong for the balance of 2005. 1. This opinion is supported by the brisk pace of 2005 contract negotiations. 2. Expects the majority of sheet business for next year to be tied to contracts with considerably higher contract pricing. 2. Contracts & Production: 1. Co. has secured, at this early date, a large portion of its planned contract tonnage for next year. 2. At present, Co. has contract commitments for approx. 65% of its 2005 production capacity. 1. This reputation has also resulted in a great deal of interest in higher-valued products from both new and existing customers, particularly large OEM accounts such as automotive, appliance and HVAC. 3. Co.'s continuing development of higher-valued products, along with its customers' knowledge of NUE's aggressive pursuit to control more of its raw materials has made many strategic-minded customers interested in developing long-term relationships with Co. 3. Vacuum Degassing: 1. Berkeley division has produced more than 300 vacuum degassed heats since Oct. 2003. 2. This 0.5m ton a year facility is capable of producing a full range of deep-drawing steels after only one year of operation. 3. Berkeley can also produce dual-phased steels. 1. Dual-phase steels are consumed by the automotive industry as a means of improving vehicle safety, increasing fuel efficiency and lowering the overall weight of a vehicle. 2. An increasing number of new automotive platforms require these advanced, high-strength steels. 3. These developments continue to enhance Co.'s value as a supplier into the automotive and other industries that require advanced steels. 4. NUE's second vacuum degasser will be commissioned at Crawfordsville in 4Q04. 4. Sheet Mills: 1. Hickman, Arkansas sheet mill set YTD production and shipping records despite taking a weeklong preventive maintenance outage. 2. Decatur, Alabama team set shift, daily, monthly, and quarterly records. 1. Decatur's newly acquired cold mill has been operating under NUE's ownership since Aug. and the transition is going extremely well. 3. Crawfordsville, Indiana team set new quarterly production and shipment records while continuing to expand in the value-added electrical steel market. 4. The cold-rolled electrical steel market, a contract-intensive market, offers significant value-added tonnage while providing insulation from the spot market. 5. Progress towards commercialization of Co.'s Castrip facility continues at a fast pace in Crawfordsville, Indiana. 5. Records: 1. 3Q04 saw continuing improvements across the board in tons produced, prime yield, product quality, and tons shipped. 2. A new casting record was established with a seven-ladle sequence resulting in ten hours of continuous casting. 3. 830 tons were produced in a single cast with a prime yield of over 96%. 6. Summary: 1. Co. produced well, shipped well, and consistently met customers' expectations in terms of quality, service and on-time delivery. 2. NUE is advancing in its continuous pursuit to produce higher-valued products and establish long-term relationships with value-appreciative customers. 3. Co. is confident that its contract business will sustain itself during the traditional traditionally weak 4Q and is confident that the market will rebound in the traditionally strong 1Q05. QUESTION AND ANSWER SUMMARY Q1. You told us CapEx this year, and obviously CapEx is like 60% of depreciation. What's your CapEx scheduled to be next year and what's your depreciation? (Michelle Applebaum - Michelle Applebaum Research)

A. (Dan DiMicco) We're getting to the point of the year where we sit down and we put together all our CapEx expectations. That's at our Nov. GM meeting. So, we really don't have firm numbers at this time, but I think it's probably going to be, again, at lower levels than our depreciation rate, but I'm not sure at this point in time. Q2. If you earn half as much next year as that you've earned this year, you would have like \$800m, \$900m of free cash, something really large and if you spent depreciation. What are your priorities for that free cash? (Michelle Applebaum - Michelle Applebaum Research)

10/3,K/2

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13246864 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Praxair Announces Conference Call Details On Third-Quarter Earnings**

BUSINESS WIRE

October 11, 2000

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 271

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... be made to accommodate late callers.

Praxair also will make available presentation materials for interested **parties** that will be referred to during the teleconference. The presentation also will be available at...

... variety of industries, including aerospace, food and beverage, healthcare, semiconductor materials, steel, chemicals and refining, **metal fabrication**, water treatment and others. For more information, visit Praxair on the Internet at [www.praxair.com](http://www.praxair.com).

CONTACT: Susan Szita Gore, Media 203/837-2573 [susan\\_szita-gore@praxair.com](mailto:susan_szita-gore@praxair.com) or Scott Cunningham, Investors 203/837-2073 [scott\\_cunningham@praxair.com](mailto:scott_cunningham@praxair.com)

12:51 EDT OCTOBER 11, 2000

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S3	19837343	FABRICATOR? OR MANUFACTURER? OR METALWORK? OR COMPAN??? OR PARTIES
S4	19779	S1(S)S2
S5	4593	S4(S)S3
S6	2085928	MATCH??? OR (MAK??? OR MADE) () (AVAILABLE OR ACCESSIBLE)
S7	508	S6(S)S1(S)S3
S8	14745	(SHEET OR FABRICAT???) (N)METAL
S9	2	S7 AND S8
S10	2	RD (unique items)
S11	7792320	COLLECT??? OR GATHER??? OR AMASS??? OR ACCUMULAT??? OR OBTAIN??? OR FIND??? OR IDENTIFY??? OR IDENTIF???
S12	9030422	INFORMATION OR DATA OR SIZE OR SIZES OR THICKNESS? OR GAGE OR SPECIFICATION? OR SPECS
S13	374044	S11(3N)S12
S14	515	S13(S)S1
S15	5963517	SERVICE() PROVIDER? OR (3RD OR THIRD) () PART??? OR INTERMEDIAR? OR AGGREGAT? OR AGENT? ? OR BROKER? ? OR MIDDLEMAN OR MIDDLEMEN OR NEGOTIATOR? OR MEDIATOR? OR WEBSITE? OR WEBPAGE? OR WEB() (PAGE? OR SITE?)
S16	157	S14(S)S15
S17	112	S16(2S)S3
S18	103	S17(2S)S2
S19	15835783	COMBIN??? OR JOIN??? OR MERG??? OR ADDING OR INCORPORAT??? OR INTEGRAT??? OR INCLUD??? OR (SLOT OR FIT OR ADD OR SLIP) () - IN
S20	93	S18(3S)S19
S21	22	S20 NOT PY>2001
S22	21	RD (unique items)

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20149733 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**SimplyHealth Selected by PacifiCare To Provide Comprehensive Online Sales Capabilities**

PR NEWSWIRE

December 05, 2001

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 757

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... online information gathering, expediting the complete case implementation process.

"Our new Sales web site will **offer** comprehensive client management for brokers and an easily understood purchasing experience for consumers," said Rich...

... Roge. "PacifiCare is dedicated to making people's lives better. These new internet-based capabilities **provide** a tremendous new channel through which to realize our goals."

"We are very pleased to..."

...Scott A. Remley, Chief Executive Officer for SimplyHealth. "SimplyHealth is one of the fastest growing **providers** of comprehensive technology solutions to automate the complex, multi-channelled insurance sales and underwriting process. Our **company**'s origins as an online broker of insurance products results in an unrivaled level of...

...its leadership position in the industry."

About SimplyHealth

SimplyHealth is leading the insurance industry in **providing** technology-based solutions allowing intelligent, cost-effective acquisition and management of online and offline customers. Our technology **incorporates** an enterprise-wide view of customer acquisition and channel management, thereby creating a comprehensive, flexible...

... Nasdaq: PHSY) is one of the nation's largest health care services companies. Primary operations **include** health insurance products for employer groups and Medicare beneficiaries in eight states and Guam. Other specialty products and operations **include** behavioral health services, life and health insurance, dental and vision services and pharmacy benefit management. More information on PacifiCare Health Systems can be obtained at <http://www.pacificare.com>.

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/CONTACT: Joy Tu of SimplyHealth, +1-404-879-4683,  
[jtu@simplyhealth.com](mailto:jtu@simplyhealth.com)/ 12:49 EST

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Bernard Brady, Senior VP Sales, Bowne

## ISRAEL BUSINESS ARENA

November 29, 2001

JOURNAL CODE: WIBR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1019

... owed companies must file electronically with the Commission. This is referred to as EDGAR (Electronic **Data Gathering** and Retrieval) filings. Foreign issuers, **including** all Israeli publicly owned **companies** are, at this time, not required to do this. Some Israeli **companies**, however, have volunteered to file electronically. EDGAR is more timely, facilitating instantaneously filing and making...

... to the offices of the SEC in Washington DC. This is a matter that Israeli **companies** should consider when planning a US filing. Recently, the commission mandated that all prospectuses filed...

... legal communities. Today, Bowne is considered the world leader, both in print and electronic documentation, **including** the completion of

**22/3,K/3**

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**NetBank Introduces Vehicle Loans Through Partnership With PeopleFirst**

PR NEWSWIRE

November 05, 2001

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 765

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... looking statements" involving risks and uncertainties that could cause actual results to differ materially. Risks **include** customers not using the service as expected; a change in the bank's product line...

... For a discussion of additional risks and uncertainties facing NetBank, see "Risk Factors" in the **company**'s SEC filings. Contact: Matthew Shepherd NetBank 678-942-2683 mshepherd@netbank.com Courtney Weitz PeopleFirst 619-446-3484 courtney.weitz@peoplefirst.com MAKE YOUR OPINION COUNT - Click Here <http://tbutton.prnewswire.com/prn/11690X45218218>

/CONTACT: Matthew Shepherd of NetBank, +1-678-942-2683, or mshepherd@netbank.com, or Courtney Weitz of PeopleFirst, +1-619-446-3484, or courtney.weitz@peoplefirst.com / 09:01 EST

**22/3,K/4**

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19137107

**What Price Security? As America vows never again, it is launching a series of antiterrorism measures from ethnic profiling to snooping through your personal e-mail**

Sharon Begley

NEWSWEEK INTERNATIONAL

October 01, 2001

JOURNAL CODE: FNWI LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1632

... executive action requiring no congressional approval, the Bush administration is quickly expanding what legal means **includes** . Last week it gave the Immigration and Naturalization Service the power to detain immigrants suspected...

... phones, obtain voice-mail messages, monitor computers and obtain customers credit-card information from Internet **providers** with minimal judicial oversight. To coordinate antiterrorism efforts, the president last week created the cabinet...

... of the IRA it was almost like a training camp. Targeting noncitizens seems likely to **include** profiling. If I see someone come in thats got a diaper on his head and...

... high priority. At the airport, guards routinely question all El Al passengers. Palestinians and Arabs, **including** Israeli Arabs who have been citizens since birth, are grilled far more intensely than Israeli Jews. So are tourists with little money and no apparent destination, as well as young singles, especially those traveling solo. One American college student, returning home alone after visiting Israel with her parents, was questioned for ...The Senate also approved an expansion of the governments power to obtain, from Internet service **providers** (ISPs), information about e-mail that their subscribers send and receive. When the technology once...

... warrant or subpoena. Customers privacy is also being sacrificed to the demands of security. Some **companies** have handed over not just customer data but profiling information, says Larry Ponemon, CEO of the consulting firm Privacy Council. One **company** , he says, handed over its entire customer database in a rush to cooperate in the terror investigation. Theres a natural tendency to cooperate. At Hertz, we have **provided** all of the information requested by the government, says Rich Broome, vice president of corporate affairs. No subpoena was issued: requests have been coming simply by phone and fax. Broome described the requests as appropriate and focused ... not a data dump. There is bitter irony in trying to gain security at the expense of the very liberties that define America. Turning the United States into a near-police state would surely be terrorisms greatest triumph. Now, as the specifics of proposed (and implemented) antiterrorism measures emerge, politicians and activists from across the ideological spectrum are questioning the rush to restrict Americans freedoms and privacy. Before we begin dismantling constitutionally protected safeguards and diminishing individual rights to privacy, we should first examine why (the) attacks occurred, said conservative Rep. Bob Barr of Georgia in a letter to Ashcroft: it certainly wasnt because civil liberties require letting people board 767s with knives and box cutters. An ideologically diverse coalition of ethnic, religious, civil-rights and government-watchdog groups is also urging caution. If we allow our freedoms to be undermined, says Anthony Romero, executive director of the ACLU, the terrorists will have won. As America launches its domestic counterattack on terrorism, the challenge will be to tighten security without strangling the very values on which the country was built. - With Lynette Clemetson and Adam Rogers in Washington, Steven Levy and Peter McGrath in New York, Joanna Chen in Jerusalem and William Underhill in London

22/3,K/5

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17670379

**US Government admits security blunder****US Department of Commerce forced to take down official website after sensitive data exposed.**

NEWSWIRE (VNU)

July 09, 2001

JOURNAL CODE: WNEW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 307

... Commerce has taken down part of its official website amid fears that sensitive data from **companies including** Microsoft, Intel and HP has been compromised. The ironically named Safe Harbour website had two...

...of personal information from Europe to the US.

The Safe Harbour site, which details information **including** revenue, the number of employees and the European countries with which a firm does business...

... since it went online last year. According to the Department of Commerce website, 68 US **companies**, **including** Hewlett Packard, Intel and Microsoft, have **joined** the Safe Harbour to date. The European Commission issued the Directive on Data Protection to...

... not deemed "adequate", transfer of personal information from Europe to those countries would be stopped. **Companies** that sign up to the safe harbour commit to notifying people about the purpose of collecting information about them and **offer** the choice of barring disclosure of personal information to third **parties**. Transfer of data without someone's consent is not allowed. The privacy statement posted at the Commerce Department **website** says: "We will not share any personally identifying information you give us with any other government..."

... public, except with your consent or as required by law. "However, a posting at the **website**, <A HREF=www.export.gov/safeharbor target...

... **blank** >www.export.gov/safeharbor</A>, said the self-certification form and the safe harbour list were...

...under examination. "We regret any inconvenience this may cause for firms visiting the safe harbor **web site**. We anticipate that this matter will be resolved shortly."

**22/3,K/6**

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14301737

**Matters of Opinion / Paying the Earth for home and hearth/**

YOMIURI SHIMBUN/DAILY YOMIURI

December 19, 2000

JOURNAL CODE: FYOM LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1693

... 200 percent to 300 percent, which I think is too high. Thus, in 1999, I **jointly** published "Nihon no Jutaku o Sukue," with architect Norimoto Kashino. You also mentioned the housing...

...in Australia in the book. Several years ago, I headed a group of housing experts, **including** officials of the Construction Ministry and major

housing makers, which made a study tour to...

... to survive in the face of fierce competition in the housing market in Australia, which **includes** several foreign firms from countries such as Italy and the United States. As a result...

...concerning the price of housing. The topic has only been discussed among separate small groups, **including** one for housing industry experts. In fact, the issue of expensive housing was first raised decades before the release of my report. In 1970, a weekly magazine pointed out that houses in Japan were too expensive, regardless of high land prices. Nevertheless, ordinary consumers in Japan have continued to believe that houses are expensive because of unavoidable factors such as high land prices and the high price of general commodities. There is also the belief among many members of the public that carpenters do not work sufficiently hard. Carpenters are criticized for taking too many breaks and for not showing up on rainy days. Another reason (for the willingness to accept high house prices) is due to the country's geological characteristics, which make it susceptible to earthquakes. This gives the impression that houses have to be built extremely sturdily, entailing extra costs. Because of these factors, general consumers have somehow believed that high housing prices in Japan are inevitable. Besides, in general, Japanese consumers have far less knowledge about houses compared with consumers in the United States and Europe. In the United States, ...carpentry work. In Japan, we don't have such a habit. Most work on houses, **including** small jobs, are done by professionals. I think the Japanese might have been too busy...

... But I think many of the regulations were made out of fear of natural disasters, **including** the rapid spread of fire caused by earthquakes due to land scarcity. In the Great...

... that should be revised to achieve a reduction in house prices? I think these factors **include** the multilayered contract system for building houses and the distribution system for housing materials. I...

... should be examined? In urban areas, houses are built with materials manufactured by major housing **companies**. As far as major housing **companies** are concerned, they have developed a very advanced system of making prefabricated housing materials. Previously...

... image of their houses which, of course, brings them more profit. However, they are private **companies**, and they pursue profit. The bottom line is that there are consumers who buy the...

... information on housing is critical among consumers. Therefore, I think that it's necessary to **provide** more information on housing issues, and that's our role as a think tank.

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**AMERICAN EXPRESS: Membership B@nking from American Express offers auto loans through agreement with PeopleFirst.com**

M2 PRESSWIRE

August 17, 2000

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 530



(USE FORMAT 7 OR 9 FOR FULLTEXT)

... about the company, call PeopleFirst.com at (800) 689-1789 or visit the company's **web site**.

About American Express American Express **Company** is a diversified worldwide travel, financial and network services **company** founded in 1850. It is a world leader in charge and credit cards, Travelers Cheques, travel, financial planning, business services, insurance and international banking.

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**22/3,K/8**

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**carOrder.com Announces Addition of Financial Marketplace; New Section Provides Customers with Brand Name Loan and Lease Products from Multiple Lenders**

BUSINESS WIRE

August 10, 2000

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 703

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... about the company, call PeopleFirst.com at 800/689-1789 or visit the company's **Web site**, [www.peoplefirst.com](http://www.peoplefirst.com).

CONTACT: carOrder.com Erica Brynes, 512/685-3660 [erica.brynes@carorder.com](mailto:erica.brynes@carorder.com) or Trylon Communications, for carOrder.com Laura Goldberg, 212/725-2295 [laurago@tryloncommunications.com](mailto:laurago@tryloncommunications.com) Lloyd Trufelman, 212/725-2295 [lloydtr@tryloncommunications.com](mailto:lloydtr@tryloncommunications.com)

10:00 EDT AUGUST 10, 2000

**22/3,K/9**

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11950072 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Innovative Clinical Solutions Announces Initiation of Bond Restructuring Plan**

PR NEWSWIRE

July 14, 2000

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 586

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... sec.gov. Investors may also obtain a copy of any of the Company's publicly **available material** free of charge by writing to Innovative Clinical Solutions, Ltd., 10 Dorrance Street, Providence, RI...

...Gary S. Gillheeney, Chief Financial Officer.

Innovative Clinical Solutions, Ltd., headquartered in Providence, Rhode Island, **provides** services that support the needs of the

pharmaceutical and managed care industries. The **Company** integrates its pharmaceutical services division with its **provider** network management division to create innovative research solutions for its customers. The **Company** 's services **include** clinical and economic research and disease management, as well as managed care functions for specialty and multi-specialty **provider** networks **including** more than 5,000 **providers** and over 10 million patients nationwide. The **Company** 's components **include** ICSL Clinical Studies, ICSL Healthcare Research and ICSL Network Management.

This press release contains forward-looking statements regarding future events and the future performance of the **Company** that involve risks and uncertainties that could cause actual results to differ materially. These risks are described in further detail in the **Company** 's reports filed with the Securities and Exchange Commission.

Editor's Note: This release is available on the Internet at <http://www.ICSLtd.net>

/CONTACT: Michael Heffernan, President, CEO and Chairman or Gary Gillheeney, Chief Financial Officer and Treasurer of Innovative Clinical Solutions, Ltd., 401-831-6755/ 16:38 EDT

22/3,K/10

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11486204 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Innovative Clinical Solutions Announces Commencement of Consent to Bond Restructuring Plan**

PR NEWSWIRE

June 13, 2000

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 801

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Jenrette Securities Corporation.

Investors are urged to read the Disclosure Statement and the other materials **included** therewith or subsequently **incorporated** therein by reference, all of which have been or will be filed with the Securities and Exchange Commission (the "SEC"). Investors may read the Disclosure Statement and the documents **included** therein or subsequently **incorporated** therein by reference at the SEC's Public Reference Room at 450 Fifth Street, N...

... Public Reference Room by calling the SEC at 1-800-SEC-0330. Our SEC filings, **including** the Disclosure Statement, are also available to the public over the Internet at the SEC...

...Gary S. Gillheeney, Chief Financial Officer.

Innovative Clinical Solutions, Ltd., headquartered in Providence, Rhode Island, **provides** services that support the needs of the pharmaceutical and managed care industries. The **Company** integrates its pharmaceutical services division with its **provider** network management division to create innovative solutions for its customers. The **Company** 's services **include** clinical and economic research and disease management, as well as managed care functions for specialty and multi-specialty **provider** networks **including** close to 10 million patients nationwide. The **Company** 's components **include** ICSL Clinical Studies, ICSL Healthcare Research and ICSL Network Management.

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future events and the future performance of the Company that involve risks and uncertainties that could cause actual results to differ materially. These risks are described in further detail in the Company's reports filed with the Securities and Exchange Commission.

Editor's Note: This release is available on the Internet at <http://www.ICSLtd.net>

/CONTACT: Michael Heffernan, President, CEO and Chairman, or Gary Gillheeney, Chief Financial Officer and Treasurer of Innovative Clinical Solutions, Ltd., 401- 831-6755/ 14:53 EDT

22/3,K/11

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08040030 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Carnegie Investment Management Makes Announcement**

BUSINESS WIRE

November 02, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 2043

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Stock

By

Carnegie Investment Management, Ltd.

Carnegie Investment Management, Ltd., a private investment management company **incorporated** under the laws of the Cayman Islands, B.W.I (the "Purchaser"), is **offering** to purchase for cash shares of Common Stock, no par value (the "Shares"), of Mattel, Inc., a publicly traded stock corporation **incorporated** under the laws of the state of Delaware (the "Company"), which Shares represent, in the...

... without interest thereon, upon the terms and subject to the conditions set forth in the **Offer** to Purchase dated Monday, November 1, 1999 (the **Offer** to Purchase) and in the related Letter of Transmittal (which, as amended or supplemented from time to time, together constitute the "**Offer**"). The **Offer** is open to all holders of Shares, except those holders of restricted Shares. Each sale of Shares pursuant to the **Offer** will be settled in U.S. dollars. Carnegie Investment Management, Ltd. is seeking to purchase...

...up to 11,340,000 Shares (3% of the outstanding shares) of the Company.

THE **OFFER** AND WITHDRAWAL RIGHTS WILL EXPIRE AT 5:00 P.M. NEW YORK CITY TIME ON MONDAY, NOVEMBER 29, 1999, UNLESS THE **OFFER** IS EXTENDED.

The **Offer** is subject to the following conditions, **including** (i) there is no substantial change in the financial condition of the **company** and that there has not been any misrepresentation. (ii) the absence of any change or circumstance that materially adversely affects the business, assets, financial condition or net worth of the **Company** or its affiliates or the value of the Shares. The purpose of the **Offer** is to acquire an equity position in the **Company**. Carnegie Investment Management, Ltd. currently intends, as soon as practicable after consummation of the **Offer**, to seek additional investment opportunity with the goal to increase the equity position in the **Company**. If any condition to the **Offer** is not satisfied, the Purchaser may terminate the **Offer** and return all tendered Shares, or extend the **Offer** and, subject to withdrawal rights as set forth below, retain all such Shares until the expiration of the **Offer** as so extended, waive such conditions and, subject to any requirement to

extend the period of time during which the **Offer** is open, purchase all Shares validly tendered by the Expiration Date and not withdrawn or...

... for Shares, subject to applicable law, until satisfaction or waiver of the conditions to the **Offer**. If Shares representing in the aggregate more than 11,340,000 Shares are validly tendered...

... not withdrawn, the Purchaser will, upon the terms and subject to the conditions of the **Offer** purchase such Shares **provided** the aggregate amount of Shares have not exceeded 5% (18,900,000 Shares) of (the outstanding Shares of) the **Company**. This **Offer** is being made on a "First Come, First Serve basis". If not more than 11...

... not withdrawn, the Purchaser will, upon the terms and subject to the conditions of the **Offer**, purchase all Shares so tendered and not withdrawn.

Due to the difficulty of determining the...

... the Purchaser does not expect to be able to announce the final results of the **Offer** until at least or up to 20 New York Stock Exchange trading days after the Expiration Date. Preliminary results of the **Offer** will be announced by notice as promptly as practicable after such date. The Information **Agent** will be the primary source of information for this **Offer**. Additionally, Holders of Shares may obtain preliminary information from the Transfer **Agent** and may be able to obtain such information from their **brokers**. The Purchaser will not pay for any Shares pursuant to final results. Tendering holders of Shares will not be obligated to pay brokerage fees or commissions. For purposes of the **Offer**, the Purchaser shall be deemed to have accepted for payment Shares validly tendered and not properly withdrawn if, as and when the Purchaser gives written notice to the Receiving **Agent** of the Purchaser's acceptance of such shares. In all cases, payment for Shares pursuant to the **Offer** will be made by deposit of the purchase price therefor with the Receiving **Agent** which will act as **agent** for tendering holders of Shares and for the purpose of receiving payment from the Purchaser...

... tendering holders of Shares and whose Shares have been accepted for payment pursuant to the **Offer**. In all cases, payment for tendered Shares will be made only after timely receipt by the Receiving **Agent** of (i) documents evidencing ownership of Shares, i.e. stock certificates, (ii) signed stock power with number of Shares in **blank** and power of attorney to complete such a transaction in the manner **provided** according to the **Offer** (iii) all and any other requisite documents evidencing ownership. Under no circumstance will interest be paid on the purchase price for ... 29, 1999, unless the Purchaser shall have extended the period of time for which the **Offer** is open, in which event the term "Expiration Date" shall mean the latest time and date at which the **Offer**, as so extended by the Purchaser, shall expire. The Purchaser expressly reserves the right, in...

... time to time, to extend for any reason the period of time during which the **Offer** is open, **including** upon the occurrence of any material events, as stated above and thereby delay acceptance for...

... as promptly as practicable by public announcement thereof. Tenders of Shares made pursuant to the **Offer** may be withdrawn at any time prior to the Expiration date. Thereafter, such tenders are...

... must be timely received by the Receiving Agent at its address set forth in the **Offer** to Purchase. It must specify the name of person, corporation, institution, group or trust who...

... of Rule 14d-6 under the Securities Exchange Act of 1934 is contained in the **Offer** to Purchase and is **incorporated** herein by reference.

A request has been made to the Transfer Agent to secure the use of the Company's stockholder registry and security position listings for the purpose of disseminating the Offer to holders of Shares. The Offer to Purchase and the Letter of Transmittal and any other relevant materials will be mailed promptly to record holders of Shares and will be furnished to brokers, dealers, commercial banks, trust companies and similar persons whose names or the names of whose nominees appear on the stockholder lists, or if applicable, who are listed as participants in a clearing agency's security position listing for subsequent transmittal to beneficial owners of Shares.

The Information Agent for the Offer is:

LMC ASSETS CORP.  
1429 Walnut Street Suite 1100  
Philadelphia, PA 19102  
215/569-0059

The Transfer Agent for the Offer is:

Bank of Boston, N. A.  
co/Equiserve Limited Partnership  
P. O. Box 8040  
Boston, Massachusetts 02266-8040  
800/730-4001

The Receiving Agent for the Offer is

Carnegie Investment Management, Ltd.  
P.O. Box 30592 SMB  
Cayside, 2nd Floor  
Georgetown, Grand Cayman  
Cayman Islands, B.W.I.  
877/409-9112

CONTACT: LMC Assets Corp., Philadelphia  
215/569-0059

20:

**22/3,K/12**

DIALOG(R)File 20:Dialog Global Reporter

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04637072 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**MetaSolv Announces Framework for Success(TM); New Web-based Product for Quick Implementation of TBS Software**

PR NEWSWIRE

March 15, 1999

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 629

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... experience is valuable to new entrants in developing their business processes and to existing service **providers** in refining their processes," said Dana Brown, vice president of marketing at MetaSolv. "Reducing risk associated with OSS infrastructure roll-out is crucial to service **providers** of all sizes. Our Framework for Success methodology productizes successful software implementation practices into a...

... the-blank' templates used in each phase of the implementation. Examples of the template documents **include** project plans, process maps, data

migration strategies, and data gathering techniques. Reference documents are also available. For example, reference documentation **include** TeleManagement Forum's Telops Map (TOM) that serves as a blueprint for business process direction. For service **providers**, it **provides** a neutral reference point for end-to-end process automation of operations. These supporting templates, reference documents, and guidelines for implementation enable service **providers** to shorten TBS software implementation.

The initial size and complexity of a **company**'s specific implementation needs are collected in the Customer Implementation Profile. The profile takes into...

... as software, gateways, and platform, to be considered in the implementation. Based on the information **provided** in the profile, a program summary is produced, **providing** the starting point for TBS software implementation.

The Framework for Success product is currently available...

... for a Framework for Success workshop is \$1,100. The Framework for Success product is **included** as part of the workshop, and requires Microsoft Internet Explorer 3.0 or higher. Use of the Web browser technology enables the Framework for Success product to **offer** universal access and a simple interface.

#### About MetaSolv

MetaSolv Software, Inc., headquartered in Plano, Texas was founded in 1992. MetaSolv develops and markets **integrated** client/server-based software solutions for the telecommunications industry. MetaSolv's Telecom Business Solution(TM) (TBS(TM)) software enables service providers to automatically manage and synchronize their entire order processing, provisioning and service assurance cycle from telephony to enhanced services in the local exchange, long distance and wireless markets. MetaSolv is an active participant in the Ordering & Billing Forum (OBF) and of the TeleManagement Forum (TMF) formerly NMF. MetaSolv has regional offices in Chicago, Denver, San Francisco and McLean, VA. MetaSolv's web site is [www.metasolv.com](http://www.metasolv.com), or contact MetaSolv directly at 800-747-0791.

MetaSolv is a registered trademark, and MetaSolv Software, the MetaSolv logo, Telecom Business Solution, TBS and Framework for Success are trademarks of MetaSolv Software, Inc. All other trademarks are property of their respective owners.

/CONTACT: Kimberlee Lueders of MetaSolv Software, 972-403-8305 or email, [klueders@metasolv.com](mailto:klueders@metasolv.com); or Bridget Cavanaugh of Alexander Ogilvy Public Relations, 214-303-0098, or email, [bcavanaugh@alexanderogilvy.com](mailto:bcavanaugh@alexanderogilvy.com), for MetaSolv Software, Inc./ 09:05 EST

**22/3,K/13**

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04383829 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**LMC Assets Corp. Makes Announcement**

BUSINESS WIRE

February 19, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1895

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Share of Common Stock

By  
LMC Assets Corp.

LMC Assets Corp., a private investment company **incorporated** under the laws of the State of Delaware (the "Purchaser"), is **offering** to purchase for cash shares of Common Stock, no par value (the "Shares"), of Fleming Companies, a public traded stock corporation **incorporated** under the laws of the state of Oklahoma (the "Company"), which Shares represent, in the...

... without interest thereon, upon the terms and subject to the conditions set forth in the **Offer** to Purchase dated Thursday, February 18, 1999 (the **Offer** to Purchase) and in the related Letter of Transmittal (which, as amended or supplemented from time to time, together constitute the "**Offer**"). The **Offer** is open to all holders of Shares, except those holders of restricted Shares. Each sale of Shares pursuant to the **Offer** will be settled in U.S. dollars. LMC Assets Corp. is seeking to purchase a...

... up to 1,147,620 Shares (3% of the outstanding shares) of the Company.

THE **OFFER** AND WITHDRAWAL RIGHTS WILL EXPIRE AT 5:00 P.M. NEW YORK CITY TIME ON WEDNESDAY, MARCH 17, 1999, UNLESS THE **OFFER** IS EXTENDED.

The **Offer** is subject to the following conditions, **including** (i) there is no substantial change in the financial condition of the **company** and that there has not been any misrepresentation. (ii) the absence of any change or circumstance that materially adversely affects the business, assets, financial condition or net worth of the **Company** or its affiliates or the value of the Shares. The purpose of the **Offer** is to acquire an equity position in the **Company**. LMC Assets Corp. currently intends, as soon as practicable after consummation of the **Offer**, to seek additional investment opportunity with the goal to increase the equity position in the **Company**. If any condition to the **Offer** is not satisfied, the Purchaser may terminate the **Offer** and return all tendered Shares, or extend the **Offer** and, subject to withdrawal rights as set forth below, retain all such Shares until the expiration of the **Offer** as so extended, waive such conditions and, subject to any requirement to extend the period of time during which the **Offer** is open, purchase all Shares validly tendered by the Expiration Date and not withdrawn or...

... for Shares, subject to applicable law, until satisfaction or waiver of the conditions to the **Offer**. If Shares representing in the aggregate more than 1,147,620 Shares are validly tendered...

... not withdrawn, the Purchaser will, upon the terms and subject to the conditions of the **Offer** purchase such Shares **provided** the aggregate amount of Shares have not exceeded 5% (1,912,700 Shares) of (the outstanding Shares) the **Company**. This **Offer** is being made on a "First Come, First Serve" basis. If not more 1,147...

... not withdrawn, the Purchaser will, upon the terms and subject to the conditions of the **Offer**, purchase all Shares so tendered and not withdrawn.

Due to the difficulty of determining the...

... the Purchaser does not expect to be able to announce the final results of the **Offer** until at least or up to 20 New York Stock Exchange trading days after the Expiration Date. Preliminary results of the **Offer** will be announced by notice as promptly as practicable after such date. The Information **Agent** will be the primary source of information for this **Offer**. Additionally, Holders of Shares may obtain preliminary information from the Transfer **Agent** and may be able to obtain such information from

their **brokers** . The Purchaser will not pay for any Shares pursuant to final results. Tendering holders of Shares will not be obligated to pay brokerage fees or commissions. For purposes of the **Offer** , the Purchaser shall be deemed to have accepted for payment Shares validly tendered and not properly withdrawn if, as and when the Purchaser gives written notice to the Receiving **Agent** of the Purchaser's acceptance of such shares. In all cases, payment for Shares pursuant to the **Offer** will be made by deposit of the purchase price therefor with the Receiving **Agent** which will act as **agent** for tendering holders of Shares and for the purpose of receiving payment from the Purchaser...

... tendering holders of Shares and whose Shares have been accepted for payment pursuant to the **Offer** . In all cases, payment for tendered Shares will be made only after timely receipt by the Receiving **Agent** of (i) documents evidencing ownership of Shares, i.e. stock certificates, (ii) signed stock power with number of Shares in **blank** and power of attorney to complete such a transaction in the manner **provided** according to the **Offer** (iii) all and any other requisite documents evidencing ownership. Under no circumstance will interest be paid on the purchase price for the tendered Shares, regardless of any delay in making ...17, 1999, unless the Purchaser shall have extended the period of time for which the **Offer** is open, in which event the term "Expiration Date" shall mean the latest time and date at which the **Offer** , as so extended by the Purchaser, shall expire. The Purchaser expressly reserves the right, in...

... time to time, to extend for any reason the period of time during which the **Offer** is open, **including** upon the occurrence of any material events, as stated above and thereby delay acceptance for...

... as promptly as practicable by public announcement thereof. Tenders of Shares made pursuant to the **Offer** may be withdrawn at any time prior to the Expiration date. Thereafter, such tenders are...

... must be timely received by the Receiving Agent at its address set forth in the **Offer** to Purchase. It must specify the name of person, corporation, institution, group or trust who...

... of Rule 14d-6 under the Securities Exchange Act of 1934 is contained in the **Offer** to Purchase and is **incorporated** herein by reference.

A request has been made to the Transfer Agent to secure the use of the Company's stockholder registry and security position listings for the purpose of disseminating the Offer to holders of Shares. The Offer to Purchase and the Letter of Transmittal and any other relevant materials will be mailed promptly to record holders of Shares and will be furnished to brokers, dealers, commercial banks, trust companies and similar persons whose names or the names of whose nominees appear on the stockholder lists, or if applicable, who are listed as participants in a clearing agency's security position listing for subsequent transmittal to beneficial owners of Shares.

The Information Agent for the Offer is: SHAREHOLDERS COMMUNICATION 17 STATE STREET NEW YORK, NEW YORK 10004 (212) 805-7174

The Transfer Agent for the Offer is: BANC ONE STOCK TRANSFER P.O. BOX 25848 OKLAHOMA CITY, OK 73125 (405) 231-6545

The Receiving Agent for the Offer is: U.S. STOCK TRANSFER CORPORATION 1745 GARDENA AVENUE GLENDALE, CA 91204 (818) 502-1404

CONTACT: The Information Agent for the Offer is:

SHAREHOLDERS COMMUNICATION  
17 STATE STREET  
NEW YORK, NEW YORK 10004



(212) 805-7174

or

The Transfer Agent for the Offer is:

BANC ONE

STOCK TRANSFER

P.O. BOX 25848

OKLAHOMA CITY, OK 73125

(405) 231-6545

or

The Receiving Agent for the Offer is:

U.S. STOCK TRANSFER CORPORATION

1745 GARDENA AVENUE

GLENDALE, CA 91204

(818) 502-1404

01:40 EST FEBRUARY 19, 1

**22/3,K/14**

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04318314 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**RD RESEARCH: Comprehensive Year 2000 selfhelp solution pack on CD**

M2 PRESSWIRE

February 12, 1999

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 695

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... access to major Y2K resource, computer equipment manufacturers' and software developers' web sites. Forms are **included** for recording systems and equipment details. For those running Microsoft Access, a practical database template...

...as a business issue, not as just a computer issue It costs GBP 149.95 **including** VAT and represents a concise project implementation guide, a powerful toolbox and extensive library of 'fixes' all in one.

The product is available direct from the authors, RD Research, Research House, Norwich Road, Eastgate, Norwich, NR10 4HA, Tel: 01603 872331, or via Maplin Electronics shops or mail order. Dealer and Consultancy enquiries welcome.

EDITORS BACKGROUND INFORMATION

Millennium Manager CD Contents

Designed for use by either in-house personnel or Y2K Consultants, the pack is a comprehensive set of tools for handling all aspects of a Year 2000 compliance project.

This not just another 'quick fix' disk for PCs, it contains:

Project Management Tools \* Detailed project management guide covering PCs, software, embedded systems, networks and the supply chain \* Hardcopy and printable project record forms \* A computerised Project Management database (requires Microsoft Access 97) \* Internet links to all major Year 2000 resource sites \* Year 2000 equipment compliance label template

PC Hardware project tools \* Hyper-links to utilities to enable you to test and update computer hardware \* Hyper-links to the major computer manufacturers' Web sites \* Where to obtain manufacturer's firmware upgrades \* Important do's and don'ts when testing systems

Software project tools \* Operating systems - how to modify their date characteristics for Y2K compliance \* Detailed information on what to look for in bespoke application software \* Details of the Y2K status of many

major software packages \* Fixes and 'workarounds' and date rules for many major software packages \* Hyper-links to major software authors' sites

Embedded Systems project tools \* Information on how to check embedded systems \* List of embedded systems potentially at risk \* How to approach Year 2000 compliance with safety critical systems

Network project tools \* How to test and upgrade networks and servers \* A database of major network software, listing Year 2000 compliance status and available fixes

Your suppliers \* What to ask your suppliers \* Sample form letters

The Millennium Manager can handle any size of Year 2000 Compliance project. It can be run by one person or a by team of people each addressing a different aspect of the organisations overall Project.

At GBP 149.95 (incl vat) it costs less than a consultant will charge for half a day.

CONTACT: Paul Williamson, RD Research Tel: +44 (0)1603 872331 e-mail: rd.research@paston.co.uk WWW: <http://www.looking.co.uk/year2000>

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**22/3,K/15**

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03093449

**New Utility Attaches a Search Engine and Other Tools to Your Web Browser's Title Bar**

BUSINESS WIRE

October 13, 1998

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 365

...ActiveCaption allows users to directly search high quality websites in a variety of specific categories, **including** news, business, entertainment, sports, movie reviews, health, politics, etc. ActiveCaption also **offers** online comparison shopping for books, music, videos and computer hardware/software, as well as a...

... the browser's toolbars and/or location bar, making more screen space available for viewing **webpages**. Also **included** is a set of programmable "Speed Buttons" which **provide** one-click access to the user's favorite **websites**, and a powerful browser-independent bookmark organizer. ActiveCaption's drag and drop bookmark manager **offers** a number of unique capabilities, **including** the ability to track user/login names associated with **websites**, user annotations, searching within bookmarks, and alerts which can be set to remind the user to revisit the site at some point in the future. The **included** bookmark **merge** utility makes it easy for users of multiple computers to keep their bookmarks up-to...

... <http://www.oneseek.com/ActiveCaption>. OneSeek Corporation is a privately-held Sunnyvale, California-based startup **company** which is focused on innovative web search and navigation tools. CONTACT: OneSeek Marty Ford, 408/523-0801 [marty@oneseek.com](mailto:marty@oneseek.com) <http://www.oneseek.com/ActiveCaption> 09:01 EDT OCTOBER 13, 1998

**22/3,K/16**

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03047698

**Viking's New Data Entry Software VDE+Images Speeds Keying from Images of Unstructured Documents**

PR NEWSWIRE

October 08, 1998

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 716

... obtained by calling 800-324-0595, or 918-491-6144, or by visiting Viking's **Web site** at <http://www.vikingsoft.com>. Viking will be exhibiting at KMExpo in Chicago, booth 2224. /CONTACT: Michael E. Glover, vice-president of Viking Software Services, 918-491-6144, Fax: 918-494-2701, or e-mail, [mike@vikingsoft.com](mailto:mike@vikingsoft.com); or Judy Schramm of JMR Consulting for Viking Software Services, 703-931-9273, Fax: 703-824-8482, or e-mail, [jaschramm@ex-pressnet.com](mailto:jaschramm@ex-pressnet.com)/ 09:01 EDT

**22/3,K/17**

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03022225

**1998 Saturday Night Halloween Gives Adults Happy Haunting Grounds**

PR NEWSWIRE

October 06, 1998

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1153

...about any of Taubman's 25 premiere shopping centers, please call or visit Taubman's **web site** : <http://www.taubman.com>. /CONTACT: Karen Mac Donald, Director, Communications of Taubman Centers, 248-258-7469/ 04:57 EDT

**22/3,K/18**

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02951574

**Red Brick Ships Major Upgrade to Red Brick Warehouse 5.1**

PR NEWSWIRE

September 28, 1998

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1387

...releases and corporate background information may also be retrieved by fax. For an index of **available materials**, please call (800) 758-5804, and enter PIN #105756. Red Brick and the Red Brick...

... holders. Except for the historical information contained herein, the matters discussed in this news release **include** forward-looking statements that involve risks and uncertainties described from time to time in the **Company**'s filings with the Securities and Exchange Commission (SEC). We refer you to the "Risk...

... important factors that could cause the actual results to differ materially from those contained herein, **including**, without limitation: Competition; Sales and Marketing Repositioning; Dependence on New Products and Rapid Technological Change; Feasibility of In-Process Technology; Dependence upon Key Personnel; and Dependence on Continued Growth of the

Data Warehouse Market. /CONTACT: Carolyn Hughes of Red Brick Systems, Inc.,  
408-399-7216, chughes@redbrick.com/ 07:30 EDT

22/3,K/19

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02915514

**New At-Home Movie System Launches Nationwide**

PR NEWSWIRE

September 24, 1998

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1119

... PRNewswire/ -- Divx, "the best way to watch movies at home," rolls toward national distribution tomorrow, **offering** consumers the theater-quality picture and sound of DVD **combined** with the convenience of no returns, the affordability of rental prices and ready availability of...

... players with the Divx feature will be available nationally at close to 700 retail locations, **including** all Circuit City, the good guys! and Ultimate Electronics stores and Future Shop's U.S. stores. The same retailers will **offer** a selection of approximately 150 Divx movie titles (see below), **including** PRIMARY COLORS, TOMORROW NEVER DIES, THE FULL MONTY and GOOD WILL HUNTING. Divx expects to add about 40 titles per month, **including** the availability of new titles on the same day they are available for VHS rental...

... new feature for DVD players, Divx has the potential to grow the digital market by **providing** the most convenient, flexible and affordable way for people to watch movies at home," said...

... officer of Digital Video Express, LP, developer of the Divx system. "We are excited to **join** with Divx retailers, studios and **manufacturers** to introduce Divx throughout America." In addition to retail stores, Divx movie discs as well as basic DVDs are available through the **company**'s online store, DivxFlix, located on the Internet at www.divx.com. Initially, a Zenith...

... the fall, players from ProScan and Panasonic are anticipated. All players with the Divx feature **offer** a complete array of DVD capabilities, **including** reverse, skip/scan, pause, chaptering and Dolby Digital audio, and will play all DVDs, **including** those that **offer** widescreen, multiple languages and other DVD features. The more affordable Divx discs cannot be played...

... at home. Consumers purchase Divx movie discs for a suggested retail price of \$4.49. **Included** in the price is a two-day viewing period, but unlike videotape rentals, the viewing...

...Good Morning Vietnam\* Good Will Hunting Grand Canyon\* Great Expectations The Great Outdoors\* Grosse Pointe **Blank** Half-Baked Happy Gilmore Hard Rain\* Hard Target High Plains Drifter Home Alone 3 Hoodlum Houseguest\* I Love You Don't Touch Me! The Ice Storm In & Out In the Name of the Father\* Jack The Jackal Jackie Brown\* The Jerk\* Jingle All the Way\* Judge Dredd\* Jungle 2 Jungle Kindergarden Cop Kingpin Kiss or Kill\* Kiss the Girls Kissing a Fool Krippendorf's Tribe Kull the Conqueror Kundun The Last of the Mohicans\* Leaving Las Vegas\* Liar, Liar A Life Less Ordinary The Locusts The Man in the Iron Mask Marked for Death Marvin's Room Mercury Rising\* Metro Mimic Mo Better Blues\* Moonstruck Mouse Hunt Mr. Magoo Mrs. Brown The Newton Boys\* Night Falls on Manhattan\* Nightwatch Nothing to

Loose The Nutty Professor The Object of My Affection\* Operation Condor  
Oscar and Lucinda Paperback Romance Parenthood Paulie, A Parrot's Tale\* The  
Peacemaker\* Phantoms Phenomenon Play Misty For Me\* Playing God Point Break

**22/3,K/20**

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02915092

**Healthcare Information Systems/Information Technology Companies Develop  
Internet- and Intranet-Based Solutions**

PR NEWSWIRE

September 24, 1998

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 462

MANASQUAN, N.J., Sept. 24 /PRNewswire/ -- Healthcare information systems/information technology **companies** are using Internet and Intranet-based platforms to deliver their products to healthcare organizations. These...

... recent healthcare Internet and Intranet-based developments reported on in "Healthcare IS/IT Market Reporter," **include** : -- IMS Health's plan to build an online pharmaceutical sample fulfillment system through its Clark ...

... Physicians' Online. The system will make pharmaceutical samples available to physicians, on demand. Physicians' Online **offers** a secure, physicians-only web site and is accessed by approximately 15,000 individual physicians each day. -- Med Advantage is **offering** an online credentialing service via its web site. Managed care organizations can perform online, real-time queries to evaluate physicians' applications and obtain verified information that meets accreditation standards, **including** medical school, post graduate education, board certification, sub-certification and Drug Enforcement Agency information imposed...

... group of MedPartners Inc., Birmingham, Ala., released RxNaviXgator, an online proprietary software product that will **provide** the **company**'s clients with a decision support to perform self-directed analysis of pharmaceutical claims data, **including** utilization trends, physician prescribing patterns and compliance opportunities. -- The Reynolds and Reynolds **Company** upgraded its Internet system for document management, Customer Advantage, to enable customers online access to...

... available through Customer Advantage -- intelligent print-on-demand forms that are viewed and printed as **blank** forms, and "form fill" forms that allow users to complete certain fields and print, save...

... Healthcare IS/IT Market Reporter" tracks the market activities of healthcare information systems/information technology **companies**, **including** : contracts awarded; new products; product updates; licensing agreements; market partnerships; and acquisitions and **mergers**. The newsletter also covers how organizations are using the Internet or Intranets to manage healthcare information, emerging technologies and how they are being used by healthcare organizations and developments affecting the health and managed care markets. "Healthcare IS/IT Market Reporter" is available from The Managed Care Information Center at an introductory price of \$397 per year. For more information contact: The Managed Care Information Center, Dept. 21PR, PO Box 559, Allenwood, NJ 08720; call toll

free 800-516-4343 or fax toll free 888-329-6242, <http://www.themcic.com>,  
e-mail [info@themcic.com](mailto:info@themcic.com). /CONTACT: Ed Miles of Health Resources Publishing,  
732-292-1100, ext.28, or fax, 732-292-1111/ 08:02 EDT

**22/3,K/21**

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02828946

**Worldtalk Introduces the Industry's First E-Mail Security Assessment  
Solution**

BUSINESS WIRE

September 16, 1998

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

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SEPTEMBER 16, 1998

Set	Items	Description
S1	50901	(SCRAP OR UNUSED OR USABLE OR REMAINING OR AVAILABLE OR LEFT() OVER OR UNCUT OR UNPUNCH? OR UN() (CUT OR PUNCH? OR SHEAR? -)) (2N) (METAL OR MATERIAL? OR SECTION? OR SPACE OR PIECE?) OR - BLANK? ? OR SKELETON
S2	487892	MATCH??? OR (MAK??? OR MADE) () (AVAILABLE OR ACCESSIBLE)
S3	4397106	FABRICATOR? OR MANUFACTURER? OR METALWORK? OR COMPAN??? OR PARTIES
S4	246849	(COLLECT??? OR GATHER??? OR AMASS??? OR ACCUMULAT??? OR OBTAIN??? OR FIND??? OR IDENTIFY??? OR IDENTIF???) (3N) (INFORMATION OR DATA OR SIZE OR SIZES OR THICKNESS? OR GAGE OR SPECIFICATION? OR SPECS)
S5	582	S4(S)S1
S6	241885	S2(S)S3
S7	34	S5 AND S6
S8	33	RD (unique items)
S9	22	S7 NOT PY>2001
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9/3,K/1 (Item 1 from file: 15)  
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02377724 76590052

**A primer on Internet organizational surveys**

Simek, Zeki; Veiga, John F

Organizational Research Methods v4n3 PP: 218-235 Jul 2001

ISSN: 1094-4281 JRNL CODE: ORRM

WORD COUNT: 9490

...TEXT: by high variability in item responses and identical factor structure relative to a postal survey. **Data collected** from 50 individuals who completed a WS and 181 individuals who completed a postal survey indicated that the WS had fewer missing values, comparable survey information in terms of item variability, and a similar factor structure to postal survey data. Overall, these findings seem to indicate that Internet self-administered surveys generate data that are comparable with those found in postal surveys, suggesting that there is little in the way of systematic nonresponse bias between electronic and traditional selfadministered surveying methods.

Measurement error can also occur because of the surveying modality employed (e.g., Tourangeau & Smith, 1996). In this context, we believe that an important factor contributing to measurement error in Internet surveys is the extent to which a survey modality affords the respondent anonymity (e.g., Singer, Mathiowetz, & Couper, 1993). A respondent is anonymous when nobody, including the researcher, can associate a given response with that respondent. Thus, true anonymity with Internet surveys would mean that no one could identify the respondent. Anonymity is compromised when an ES is used. When respondents return questionnaires using the reply function in an e-mail package, their e-mail address and their name and affiliation are automatically conveyed to the surveyor. In addition, many companies are beginning to monitor employee e-mails, so that although respondents may be anonymous to the researcher, they are identifiable by their firms. Furthermore, sending a completed survey through e-mail may be less secure because it travels unencrypted. In sum, although few people might actually attempt to intercept and read e-mails, until encryption becomes standard, many potential respondents are likely to feel that their anonymity is compromised.

On the other hand, a WS can provide greater anonymity because there is no authenticated method of verifying the identity of the individual participating in such surveys. Clearly, greater anonymity does not mean ... from the order in which they arrive, people who may be monitoring the remailers cannot **match** the outgoing messages with the incoming messages to identify who sent which message. Furthermore, the...  
...remailer is run by the researcher. Hence, we recommend that remailers be run by third **parties** whom respondents are likely to consider trustworthy, such as a university's human subjects committee...

...respondent can browse the Web or send e-mail from behind a firewall that the **company** says will render the user completely untraceable.

Finally, it must be recognized that guaranteeing complete data security and anonymity is not possible with Internet surveys. Hence, even when measures such as the aforementioned ones are in place, the researcher should not make the promise of complete anonymity. Most Internet users seem to have a good knowledge of the lack of anonymity in Internet communication, such that a promise of complete anonymity might raise serious doubts about the credibility of the researcher. On the contrary, we believe it behooves the



researcher to inform potential respondents of this matter. Recall that a potential respondent is considered to be informed if the researcher provides the following information: (a) the nature and degree of anonymity afforded and the voluntariness of the research situation, (b) specification of the research and the general purpose of the research, and (c) specification of the ultimate state of documents or records of data obtained in the research (Boruch, 1971).

#### Managing Confidentiality Concerns

Much like anonymity, complete confidentiality of responses is not possible with Internet surveys. For example, a WS placed on an organization's Web page can be accessed by anyone, and even devices such as passwords and encryption may be of little use in ensuring total confidentiality. It is also true, however, that some modalities are likely to invoke greater perceived levels of confidentiality. For example, when an ES is used to send the survey to the respondent's personal e-mail account, concerns over confidentiality are likely to be high: "If they know my e-mail address, they also know me and how I am responding." Indeed, most e-mail packages are currently programmed to include identifying information of the respondent, including his or her name. On the other hand, when a respondent completes a survey that resides on a Web page or downloads and returns the survey via postal services, he or she might be less worried about confidentiality because of greater anonymity. Clearly, it is not possible to associate an anonymous individual with any part of the collected data.

A factor that complicates the confidentiality issue is that many Internet users are likely to have established beliefs that Internet surveys lack confidentiality because of the popular media coverage that often calls attention to the lack of privacy on the Internet. Therefore, strategies aimed at effectively improving potential respondents' perceptions about confidentiality might prove extremely useful in dealing with the negative effects of confidentiality on Internet surveys. To that end, the researcher should try to gain the trust of respondents. As Singer et al. (1993) suggested, in managing confidentiality concerns, what matters more than the nature of the assurance given respondents is trust in the integrity of the researcher. In this context, we believe what the researcher tells potential respondents about the survey is very important. For example, the researcher should provide a clear explanation of the purpose of the survey and how the respondent was selected to avoid suspicion that they were compiled through trolling (Cho & LaRose, 1999). The respondent should also be told how the data will be used and who will have access to it. Respondents can be reminded that although no complete guarantee of confidentiality with Internet surveys is possible, some steps, such as daily downloading of submitted responses, will be undertaken to minimize such risks. And finally, the use of passwords and access protections can also alleviate respondents' suspicions about confidentiality (Stanton, 1998). For example, by using unique identifier codes, the researcher can minimize the risk that a third party will link a specific data set to a certain individual (Smith & Leigh, 1997).

#### Conclusion

Internet self-administered surveys offer organizational scholars exciting new possibilities for data collection. However, researchers have to make and are making a number of trade-offs when they decide to use Internet surveys to collect survey information. Therefore, although it is important that Internet surveys are given the appropriate attention, it is equally important that limitations of these surveys are understood from a comparative and comprehensive perspective.

9/3,K/2 (Item 2 from file: 15)

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02303824 101938815

**Why people stay: Using job embeddedness to predict voluntary turnover**  
Mitchell, Terence R; Holtom, Brooks C; Lee, Thomas W; Sablinski, Chris J;  
Erez, Miriam  
Academy of Management Journal v44n6 PP: 1102-1121 Dec 2001  
ISSN: 0001-4273 JRNL CODE: AMA  
WORD COUNT: 10242

...TEXT: had six additional items based on our interviews and on deliberation that occurred after the **data** were **gathered** at the grocery stores. Three of these items were added to links to community, and three were added to fit to organization. The final set of items is shown in the Appendix.

Job satisfaction. Among the grocery clerks, we used Spector's (1997) Job Satisfaction Survey, a 36-item measure specifically applicable to service organizations. To assess overall job satisfaction, an averaged composite of all 36 items was used ( $\alpha = .92$ ), and for the facets of job satisfaction, Spector's subscales were used ( $\alpha$ 's = .84, pay; .77, promotion; .88, supervision; .70, benefits; .82, contingent rewards; .53, operating conditions; .63, coworkers; .80, nature of work; .75, communication). Among the hospital employees, management's concerns about questionnaire length did not allow use of Spector's scale. Instead, we measured overall satisfaction with an averaged composite ( $\alpha = .85$ ) of the following three items: "All in all, I am satisfied with my job." "In general, I don't like my job (reverse-scored)." And "In general, I like working here."

Organizational commitment. To assess overall organizational commitment, we averaged ratings on all items of Meyer and Allen's (1997) threedimensional measure ( $\alpha = .84$ , store, and .87, hospital). For the three dimensions, Meyer and Allen's subscales were used. For the grocery and hospital employees, respectively, alphas were .86 and .89 for affective commitment, .85 and .81 for calculative commitment, and .71 and .81 for normative commitment.

Job alternatives. These two items were adapted from Lee and Mowday (1987): "What is the probability that you can find an acceptable alternative to your job?" and "If you search for an alternative job within a year, what are the chances you can find an acceptable job?" These items were averaged to reflect perceived alternatives ( $\alpha = .93$ , both samples) and had a five-point response format. Although this measure has been used in previous research, it suffers from two limitations noted by Steel and Griffeth (1989): With only two items, it is somewhat simplistic, and when analyses are conducted within a sample, the variance is limited. Both of these problems may inhibit the measure's relationship with turnover.

Job search behavior index. We used Kopelman, Rovenpor, and Millsap's (1992) ten-item scale to measure actual search activity. It includes questions such as "During the past year have you 1) revised your resume, 2) sent copies of your resume to a prospective employer, 3) read the classified advertisements in the newspaper, 4) gone on a job interview, and 5) talked to friends or relatives about getting a new job? The response format is yes/no, and the alphas were .80 and .82 for the two samples.

Intentions to leave. Three items were adapted from Hom et al. (1984): "Do you intend to leave the organization in the next 12 months?," "How strongly do you feel about leaving the organization within the next 12 months?," and

"How likely is it that you will leave the organization in the next 12 months?" An averaged composite was used in the analysis (alpha = .95 and .97).

Voluntary turnover. Both organizations provided a list of all voluntary and involuntary leavers for a 12-month period following each survey administration. Maertz and Campion defined voluntary turnover incidents as "Instances wherein management agrees that the employee had the physical opportunity to continue employment with the company, at the time of termination" (1998: 50). To confirm that their leaving had been voluntary, we attempted to contact all leavers. Because some of them had also left their localities, we were only able to contact 15 of the 20 grocery chain voluntary leavers. However, this proved to be an important check on the reporting system, as 3 of these leavers interviewed indicated that their departures were somewhat less than voluntary. (They felt pressure to leave but were not fired.) To be conservative, we omitted these 3 people and all the involuntary leavers from the analyses. In the hospital sample, we were able to contact 20 of 27 voluntary leavers, each of whom reported leaving voluntarily. Thus, the p-values were approximately 10 percent for grocery employees (total voluntary leavers out of self-identified respondent sample) and 13 percent for hospital employees.

## RESULTS

### Development of job Embeddedness

Job embeddedness is an aggregate formed from six dimensions (Law, Wong, & Mobley, 1998). More specifically, its indicators are causes of embeddedness and not reflections (MacCallum & ...utilizes my skills and talents well (.72, .80). I feel like I am a good **match** for this **company** (.80, .82). I fit with the **company** 's culture (.72, .72). I like the authority and responsibility I have at this **company** (.67, .74).

Hospital only: My values are compatible with the organization's values (.68). I can reach my professional goals working for this organization (.77). I feel good about my professional growth and development (.69).

Links to Community' a's = .77, .50b

Both organizations: Are you currently married? (.93, .93). If you are married, does your spouse work outside the home? (.88, .91). Do you own the home you live in? (.67, .65).

Hospital only: My family roots are in this community (.06). How many family members live nearby? (.07). How many of your close friends live nearby? (.

9/3,K/3 (Item 3 from file: 15)  
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02158154 72528056

**Information privacy and marketing: What the U.S. should (and shouldn't) learn from Europe**

Smith, H Jeff

California Management Review v43n2 PP: 8-33 Winter 2001

ISSN: 0008-1256 JRNL CODE: CMR

WORD COUNT: 12152

...TEXT: will post those changes on this page so that you are always aware of what **information** we **collect** , how we use it, and under what

circumstances we disclose it." On the one hand, Amazon had correctly noted, for privacy-sensitive customers who were willing to invest the time to find the message, that there is a possibility of future data sharing. Further, customers could apparently "opt out" of those unspecified future uses. On the other hand, the notice regarding external transfers made no promises, and the burden of future vigilance in that matter was shifted to the consumer.

For "access," Amazon allowed customers ...On the sixth page was a section that read as follows:

SHARING INFORMATION WITH THIRD **PARTIES** : From time to time, we may collect and share information about you with third **parties** in order to **make available** the products and services we think you will like. Before doing so, we will carefully review these **companies** and their practices to make sure they meet our standards. You may request that your name not be given to these **companies** by writing to us at [address]. Please include your name, address, and account number with your request.

This notice-written in small type, nestled in a lengthy document that will probably not be read by many consumers-is unlikely to get much attention. Further, the disclosure regarding types of information (that is, "information about you") is vague. Furthermore, as has been common in many U.S. statements of this type, the consumer's attention is directed more to the context of the offers that may be received (note the focus on the review of the offering companies and their practices). Based on many such documents I have encountered, this approach has been fairly common in the United States. While it allows the firm to credibly claim that it has provided some notice to customers, in reality few will actually see the information. Obviously, to the extent that one misses the notice or does not understand what it is saying about uses of data, one is unlikely to "opt out."

Third, in many situations, it requires an investment of time, effort, and/or money for a consumer to effect an "opt out." Although a number of catalog merchants do provide simple check-off boxes on order forms,<sup>28</sup> one frequently finds that invoking an "opt out" involves writing a letter (and paying the postage). I am unaware of any statistics regarding the percentage of direct marketers that embrace this approach, but I can report that it is the one used by my own cable television company, local telephone service provider, credit card issuer, and bank. It is also the mechanism employed by the DMA for its Mail Preference Service. Some other firms (e.g., a large video rental chain) do provide a tear-off "opt out" coupon on a monthly sales circular, but the consumer is still required to address an envelope and pay postage to return it. While none of these activities (or the price of a single stamp) is onerous in isolation, having to undertake a succession of such activities-one for each direct marketing merchant with which a consumer deals-could certainly serve as a disincentive to consumers wishing to engage in much "opt out" behavior.

#### Internal Secondary Uses

One of the most striking areas of difference between the U.S. and European perspectives is the distinction regarding internal secondary uses of personal data for marketing. The Directive provides that consumers have a legal right to restrict internal uses of personal data "for purposes of direct marketing."<sup>29</sup> In contrast, in most industries, federal U.S. law assumes that any data collected by a firm can be used for any purpose inside the company's own walls. There is an exception in telecommunications, with service providers being allowed to access and use message content (e.g., the content of a phone call) only for network administration purposes.<sup>30</sup> There is also an exception in the financial services industry. Based on a Federal Reserve Board policy statement, a

bank's trust and loan departments are not allowed to exchange customer information.<sup>31</sup>

However, it is also worth noting that changes in financial laws are "actually enabling more uses of customer information for cross-marketing in ways that would previously have been viewed as "external" but will now be viewed as "internal." As of late 1999, the Gramm-Leach-Bliley Act (GLB) has allowed banks, securities firms, and insurance companies to operate as single entities in the United States. Customer relationships that were previously viewed as separate could, depending on the mergers and acquisitions that are bound to occur, now be viewed as being within one corporate entity. Therefore, transmissions of personal information that were previously viewed as being between "nonaffiliated" parties could now be between "affiliated" entities.<sup>32</sup> However, as mentioned earlier, there are also new privacy rules for these institutions. The GLB mandated that several federal agencies issue rules for information privacy safeguards, and these became effective on November 13, 2000, with mandatory compliance as of July 1, 2001. At the time a customer relationship is established, and at least once in each subsequent year, the financial institution must provide a privacy notice that details all disclosures of "nonpublic personal information" to all entities, whether affiliated or not. Further, the customer must be given a simple and clear "opt out" alternative for the transfers to non-affiliates. However, no such "opt out" alternative is demanded for the affiliated transfers.<sup>33</sup> (Under the new rules that become effective in July 2001, the credit card issuer's notice from summer 1999 will no longer be legal for use by U.S. financial institutions, although the approach will still be legal in other industries.)

Other than in a few limited domains-message content in telecommunications and trust/loan information in banks-U.S.

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**The peer group study**

Cameron, Jim

Mortgage Banking v61n1 PP: 168-179 Oct 2000

ISSN: 0730-0212 JRNL CODE: MOB

WORD COUNT: 3935

ABSTRACT: A key performance study that **matches** mortgage **companies** to their peers shows production returns on equity suffered in 1999 compared with the year...

...performance slipped, average servicing returns rose from 8.1% to 12% for the combined 41 **companies** in the study.

TEXT: A key performance study that **matches** mortgage **companies** to their peers showed production returns on equity suffered in 1999 compared with the year...

...average servicing returns rose from 8.1 percent to 12 percent for the combined 41 **companies** in the study.

ED KOCH, FORMER MAYOR OF NEW YORK CITY, USED TO ask his...

...cycle, each firm receives a detailed set of definitions and instructions as well as a **blank** Microsoft Access database. Each of the participating companies **gathers** the required **data** and enters it into the database. The file is then e-mailed to MBA, where reports are generated and reviewed

in detail by MBA and STRATMOR Group staff, who then prepare a list of follow-up questions for the company.

Even with a detailed set of instructions, we found there are often differing interpretations. Our experience tells us there is no substitute for a thorough review and scrubbing of the data. In fact, this process is often a learning experience for the firms involved-particularly the smaller firms.

This reporting cycle

Forty-one companies participated in the MBA/STRATMOR Peer Group Program for the December 31, 1999, cycle. They were, in alphabetical order, ABN AMRO Mortgage Group; Bank of America Mortgage; Bank of Oklahoma; Bank United; BB&T; B.F. Saul Mortgage Co.; Capital Mortgage Funding, LLC; Carolina First Mortgage Co.; Central Pacific Mortgage Co.; Charter Bank; Charter One Mortgage Co.; Chase Manhattan Mortgage Corporation; Commerce Mortgage Corporation; Continental Capital Corporation (HomeStreet); CrossLand Mortgage Corporation; CUNA Mutual Mortgage Corporation; First Nationwide Mortgage Corporation; Fleet Mortgage Group, Inc.; Fort Worth Mortgage Corporation; GMAC Commercial Holding Corporation; Greenpoint Mortgage Funding, Inc.; Guild Mortgage Co.; HomeSide Lending, Inc.; Homestead USA, Inc.; Huntington Mortgage Co.; Irwin Mortgage Corporation; M&T Mortgage Corporation; Market Street Mortgage Corporation; MidAmerica Bank, FSB; Mission Hills Mortgage Corporation; Nationwide Home Mortgage Co.; New South Federal Savings Bank; Old Kent Mortgage Co.; Pulte Mortgage Corporation; Quicken Loans, Inc.; Roslyn National Mortgage Corporation; Secured Bankers Mortgage Corporation; Temple-Inland Mortgage Corporation; Universal Lending Corporation; Wachovia Mortgage Co.; and Waterfield Mortgage Co., Inc.

We divided the companies into the following peer groups:

- \* Peer Group A: Large lenders/servicers;
- \* Peer Group C: Small/medium-sized lenders;
- \* Peer Group E: Thrift-owned lenders; and
- \* Peer Group M: Megalenders/servicers.

For the December 31, 1999, meetings, our philosophy was to divide the peer groups generally by annual production and servicing portfolio volume. The lone exception to this was Group E, which is made up of thrift-owned lenders that often engage in portfolio lending. The average characteristics of each group are summarized in Figure 1.

At a glance, one can see the large variety of firms in the program. Each firm receives a data book that summarizes the detailed results by company for its group. In addition, each firm receives summary weighted and simple average results for the other peer groups-so small firms can see the overall results for the larger firms and vice versa. For example, smaller servicers can see how their cost-to-service metrics stack up against larger players. The data includes detailed operating results by production channel. Figure 2 shows the production channel breakdown by group.

A simple review of firm participation in the various production channels can create interesting discussions. For example, one would not expect the smaller firms in Groups C and E to be as active in the broker and correspondent channels. Therefore, why are six out of seven Group E firms participating in the broker channel? (In this context, broker channel means receiving loans from brokers and closing them. It does not refer to taking a retail application and "brokering" the loan to third-party lenders.) Do

the results justify their presence in that channel?

#### Overall results

Is there such a thing as a normal year in mortgage banking? We are a classic cyclical industry and 1999 typified our roller-coaster existence. The first half of the year was a carryover from 1998, the greatest year in mortgage banking history to date. By midyear, however, the party was over as rates increased and the refinance component of production dropped from more than 50 percent to less than 15 percent for many firms.

#### Figure I

The increase in rates had another predictable result:

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02057291 58561528

#### **Trending toward participation direction in the Taft-Hartley world: The need for participant education**

Amelio, Gary A; Byrd, Amy M; Hackett, Patricia A  
Employee Benefits Journal v25n3 PP: 15-20 Sep 2000  
ISSN: 0361-4050 JRNL CODE: EBJ  
WORD COUNT: 3337

...TEXT: rather than its spirit. Can the average participant look at literature provided by mutual fund **companies** objectively, noting that, although one fund has a return only slightly higher than a similar...

...that the average plan participant will have unanswered questions if a live educator is not **made available** for interactive discussions about plan investments. In our experience, when written materials are distributed in a vacuum, participants receive what seems to be an overwhelming amount of cryptic information that is beyond their ability to comprehend and therefore act upon. Education seminars, although not specifically required in Section 404(c),<sup>4</sup> ensure that members have investment information at their disposal and can serve as a forum for questions and further discussion.

Some informational requirements of Section 404(c) must be provided only upon the request of a participant. However, we suggest that, because a number of these items are investment related, using already-scheduled meetings and/or written communications to disseminate this information is worthwhile for both trustees and participants. These requirements include investment-level expense information, as well as a list of assets held in each investment alternative (for mutual funds, this is the funds themselves, not the underlying assets), their values, and information on bank and insurance company fixed rate contracts (i.e., GICs). Note that where the investment is in a group trust or common or collective trust, this information must include the trust's underlying assets.

Prior and current investment performance, excluding expenses, must also be provided upon request. Again, the regulations require merely making this information available. Particularly in today's economic environment, we contend that quality education seminars include commentary on investment returns.<sup>5</sup> Since Taft-Hartley plans generally moved to participant-directed investing only within the last decade, a significant number of members have never experienced a prolonged bear market. Remarks made by participants during numerous education seminars conducted by PNC Advisors illustrate the

implications of the past decade's economic bliss. Many participants consider funds with a return of less than 20% unacceptable. Others do not understand that even though a fund shows positive five- or ten-year returns, there may have been negative returns in a quarters) or years) within that period. The message conveyed by such inflated member expectations is clear: Providing performance information without background data or historical perspective may actually perpetuate misconceptions rather than educate.

The basic fund-level information required should be readily available to plan administrators from the plan provider, mutual fund company or investment manager. Typically, it is neatly packaged into a single "fund fact sheet," which we suggest should automatically (as opposed to upon request) be provided and explained as part of a quality education campaign. Although prospectuses include this information, fund fact sheets are generally easier for the average investor to understand. Prospectuses must be provided as a matter of course, according to Section 404(c), immediately before or ...extinction. At a recent participant education seminar we hosted, the presenter explained that numerous educational **pieces** were **available** on the Web and recited the Web site address. Virtually none of the union members...

...likely, children were. This anecdote demonstrates that, while participants may not make an effort to **obtain** more **information** through the Internet, submitting transactions through this medium has value to them. It also illustrates the importance of investment education seminars. In a group setting, one member's question leads to others, making the experience more interactive and instructive for everyone in attendance. A quality plan provider should explain the informational and transactional capabilities of its Web site and provide a demonstration of the site to members during the education seminar.

#### Disclosing Fees and Expenses

Section 404(c) requires that participants must be given a description of fees or expenses charged at the account level. Like explaining the shift in responsibility that participant-directed investing brings, describing fees of any sort is a public relations dilemma. Typically, members with investment experience outside of a qualified plan are more likely to understand that there are fees associated with account management and recordkeeping functions. However, plan participants unfamiliar with the financial world often suspect nothing short of fraud when there is, as they see it, a fee to simply "hold their money."

When plan trustees explain fees, we suggest covering several key points. A common misconception held by union members is that the "old plan" (i.e., the plan prior to participant-directed investing) did not charge any fees. This impression occurred most often when the annuity fund deducted fees before reporting returns and a "fee line" was not included on the annual statement. For trustees whose current plan statement does not clearly disclose associated fees, we suggest that the first message union members hear regarding fees is that they did indeed pay them, directly or indirectly, even before participant-directed investing. We strongly encourage full disclosure of both administrative fees (i.e., actuarial, legal and TPA fees), as well as fund-level expense ratios. Interestingly, Section 404(c) does not require that expense ratio information be given unless specifically requested by a participant. Trustees may initially be tempted to gloss over either account- or fund-level fees, particularly if one or more cannot be determined to the penny. However, our experience suggests that trustees put themselves at less of a public relations risk through full disclosure of all applicable fees, rather than covering only



the required minimums. A vocal union member who discovers an undisclosed fee after the initial communications campaign can turn this lack of candor into a nuisance for trustees, even if the trustees were not legally required to automatically disclose.

The above requirements highlight those informational responsibilities that plan administrators must address automatically in order to be afforded Section 404(c) fiduciary relief. Of course, in addition to providing the information, participants must also be made aware of the name, address and telephone number of the fiduciary responsible for providing this information. This is typically referenced in the plan's summary plan description.

#### Flexibility Is Critical When Planning Education Seminars for Union Members

Investment education is an important component of providing members with an annuity plan that will allow them to meet their retirement goals. Trustees are realizing that, through a solid education campaign, they will have informed participants and, most likely, a greater percentage of members taking an active role in the investment of their contributions. A key "intangible" factor of a successful education campaign is seminar attendance. Attendance and participation in the meetings themselves is critical. It is our practice to tailor the substance and timing of education meetings to best meet the needs of union members. Scheduling factors to keep in mind in the multiemployer setting include planning presentations around shifts; holding a variety of meetings to cover the entire geographic area covered by the union; and timing education seminars to coincide with hiring cycles, fund additions and changes in plan terms.

Conclusion

While the rigid requirements of Section 404(c) may initially

9/3,K/6 (Item 6 from file: 15)

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02036849 45984124

#### **Detering check fraud: The model positive pay services agreement and commentary**

Anonymous

Business Lawyer v54n2 PP: 637-684 Feb 1999

ISSN: 0007-6899 JRNL CODE: BLW

WORD COUNT: 21620

...TEXT: imitate genuine checks of the victim of the fraud.<sup>7</sup> In other words, the swindler **obtains** valid account **information** (probably from the account holder, from discarded account statements, or from a bank insider) and...

...checks belonging to the account holder victim of the fraud. Either the criminal will steal **blank** checks and forge the account holder's signature, or the criminal will obtain a check already issued to a payee and forge the payee's indorsement.

There are other types of check fraud, including closed account fraud (where the criminal deposits a check drawn on a closed account knowing that he or she will be able to withdraw the funds before the check is returned) and identity assumption (where a criminal assumes the identity of a valid bank customer and changes account information or initiates unauthorized transactions).

## LIABILITY FOR CHECK FRAUD

As the numbers demonstrate, there are significant losses to both financial institutions and others that result from check fraud. Articles 3 and 4 of the U.C.C.,<sup>8</sup> the commercial law governing negotiable instruments and check collection, allocates liability for check fraud losses between the depository bank, collecting banks, the payor bank, and the individual whose account was affected. If a fraudulent check is finally paid by the payor bank and the perpetrator is nowhere to be found, the U.C.C. apportions liability for the check fraud:

- (i) as between the payor bank and its customer,<sup>9</sup>
- (ii) as among the banks in the collection and payment chain,<sup>10</sup> and
- (iii) as between the payee of the check and the banks in the collection and payment chain. I

The following discussion focuses on the way in which the U.C.C. allocates liability to the payor bank and its customer.

As between the payor bank and its customer, the threshold rule is that the bank is liable to the customer when it pays a check that is not "properly payable."<sup>12</sup> A check is properly payable if the account holder has authorized the payment and the payment does not violate any agreement between the account holder and the bank.<sup>13</sup> A forged signature is not an authorized signature. It does not bind the account holder whose name is forged.<sup>14</sup> Therefore, when a check bears a forged drawer's signature, ...not allocate the risk between the bank and the customer when a communication between the **parties** is fraudulent (Section 2.4.4 only addresses Customer errors). In the normal course of...

...Check Report sent by the bank to the customer when a Presented Check does not **match** a check shown on the Check Issue Report, and (iii) the Pay Request or Return Request the customer may send instructing the bank to pay or return an Exception Check.

a. Check Issue Report and Pay and Return Requests.

An employee of the customer may manage to list a fraudulent check on the Check Issue Report in order that the check not appear as an Exception Check to ensure that an Exception Check is paid. In that event, the check will escape detection, and the liability provisions of the Model Agreement would not apply to the check. Although the check admittedly might be not properly payable under U.C.C. section 4-401, if the identity of the perpetrator is known and the perpetrator is an employee of the customer, the customer might be liable for the loss under U.C.C. sections 3-404, 3-405, or 3-406. A provision in which the customer agrees to be liable for losses resulting from the fraudulent communication of a Check Issue Report or Pay or Return Request issued from the premises of the customer to the bank would not be inappropriate.

A provision in which the customer agrees to be liable for losses resulting from any purported communication of a Check Issue Report from the customer to the bank would, of course, be less satisfactory from the customer's viewpoint. For example, the bank might proffer a provision such as the following:

Any communication purporting to have been sent by the customer will be deemed to have been sent by and authorized by the customer, and the bank is authorized by the customer to act in reliance thereon, even though the

Under U.C.C. section 3-406(a), a person whose failure to exercise ordinary care substantially contributes to an alteration or to the making of a forged check is precluded from asserting the alteration or forgery against a person who pays the check in good faith. Thus, if the customer has failed to exercise ordinary care, as for example, by hiring a convicted forger as bookkeeper, the customer would be precluded from asserting that a check forged or altered by the bookkeeper was not properly payable. If, however, the bank has also failed to exercise ordinary care in paying the check, the loss would be allocated under the revised version of U.C.C. section 3-406(b) between the bank and the customer according to the extent to which the failure of each to exercise ordinary care contributed to the loss.

Section 3.2.3 of the Model Agreement makes clear that these allocation provisions of the revised section 3-406 would apply to the bank's payment of an Exception Check under the Agreement. A court could find, for example, that (i) the failure of the bank to exercise ordinary care by not complying with the customer's Return Request contributed ninety percent to the loss and (ii) the failure of the customer to exercise ordinary care by hiring a crooked bookkeeper contributed ten percent to the loss.

Similarly, section 4-406(c) shifts the liability for fraudulent checks to the customer if a loss occurs due to the customer's failure to examine its bank statement and report the fraud within the time specified in the section. If the customer proves that the bank has failed to exercise ordinary care in ...that escapes detection under the positive pay procedures. It may state, for example, that: The **parties** intend that the Check Issue Report transmitted to the bank constitute the signature of the ...

...payable. By transmitting the Check Issue Report, the customer expressly warrants that all checks that **match** the information in the Check Issue Report are properly payable.

This provision has the effect of shifting liability to the customer for forgeries and alterations that are not detected by most positive pay procedures. This provision would apply not only to checks that are fraudulently listed by the customer or some third party on the Check Issue Report with the intention of avoiding detection as an Exception Check, but also to checks that would not normally be detected under the positive pay procedures, such as checks with forged drawer's signatures or altered payee names. The customer and the bank should be wary of any

9/3,K/7 (Item 7 from file: 15)

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01955667 46508478

**Corporate MIS: I**

Allen, Leilani

Mortgage Banking v60n2 PP: 109-110 Nov 1999

ISSN: 0730-0212 JRNL CODE: MOB

WORD COUNT: 1102

...TEXT: future management decisions." Data is collected from a variety of sources, checked for validity and **made available** electronically in a form that allows direct management interaction. A **company** may choose to build an MIS for any number of reasons:

\* To have more timeliness to manage?" From this **information**, we can **identify** critical **data** elements to use in designing a report that can represent them.

The goal is not to define the report, because that is what the MIS allows the manager to do. Rather, the goal is to identify the relationships that exist between data elements and the role those elements play in decision making.

In next month's column, we will discuss the remainder of these 12 steps.

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9/3,K/8 (Item 8 from file: 15)

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01775204 04-26195

**The architecture of cooperation: Managing coordination costs and appropriation concerns in strategic alliances**

Gulati, Ranjay; Singh, Harbir

Administrative Science Quarterly v43n4 PP: 781-814 Dec 1998

ISSN: 0001-8392 JRNL CODE: ASQ

WORD COUNT: 14645

...TEXT: and Technology Indicators (CATI) database, collected by researchers at the University of Limburg. The CATI **data** were **collected** by examining public announcements in specialized technical journals, books, and business periodicals for various sectors and in the popular business press. We **collected** additional **data** on alliance announcements and details on the specific attributes of all alliances from numerous sources, including industry reports, industry-specific articles reporting alliances, and additional **materials made available** by industry consultants. Multiple sources, when they were available, helped us to verify the alliance...

...Automotive Reports, U.S. Auto Industry Report, Motor Industry of Japan, and the Japanese Auto **Manufacturers** Forum; for the biopharmaceutical sector, Bioscan, Ernst & Young reports, and the Biotechnology Directory; for the...

...all sectors, Predicast's Funk and Scott Index of Corporate Change. The objective of the **data collection** effort was to cover comprehensively the alliances formed within the selected industries. Only alliances that had actually been formed were included-reports of probable future alliances were excluded. The complete alliance dataset includes information on 1,570 alliances formed by American, European, and Japanese firms between 1970 and 1989. We took pains to ensure that the dataset fully covered all alliances in each industry for each year of the study period. It is impossible to gauge the extent or consequences of the possible sample selection bias resulting from including only publicly announced ventures. Since our panel included only large and prominent firms in each industry, which usually get extensive press coverage, we expect this concern to be much less than with a sample of small firms, which receive less public scrutiny.

In our data collection efforts, we used precise criteria to facilitate the coding, which is described further below, and took several steps to ensure coding reliability. First, prior to starting the coding, we carefully controlled the dichotomous choice process by developing a list of synonyms for each choice. We clarified and refined explicit coding rules using 50

alliance announcements not in the sample. The general coding rule applied was to code only explicit references to each choice. Multiple public announcements were consulted from a wide variety of sources listed above. Because the dichotomous choices were clearly specified, the rules for coding were kept simple and straightforward, and multiple sources were consulted, the actual coding of alliances was not a complex task. Also, the clear specification of categories and the simplified coding rules boosted the reliability of our coding. We further attempted to ensure test-retest reliability by recoding a small number of alliances periodically after some time had elapsed since the original coding. Throughout the coding process, the results of the recoding were almost identical to the previous results, and the agreement rate ranged from .96 to 1.00. Overall, we believe that this process resulted in highly reliable coding of the alliance data.

#### Variables

Dependent variable. We do not believe that treating the presence of equity as synonymous with hierarchical alliances is entirely appropriate. To assess more accurately the factors explaining the degree of hierarchy in alliances, we therefore conducted our analyses with three categories of alliances, arrayed in increasing order of hierarchical controls (hierarchy): contractual alliances (coded 0), minority equity investments (1), and joint ventures (2)

Interdependence. We were interested in assessing the levels of interdependence the partners in an alliance anticipated at the outset, when the alliance was announced. Using Thompson's (1967) distinction between pooled, sequential, and reciprocal interdependence is a parsimonious way of arraying the degree of interdependence in alliances that underlies coordination costs. These three types of interdependence, although previously discussed in the intraorganizational context, can also be seen in the context of interfirm coordination of activities (Borys and Jemison, 1989). Pooled, or generalized interdependence, denotes situations in which "each part renders a discrete contribution to the whole, and each is supported by the whole," is "coordinated by standardization, and is least costly in terms of communication and

9/3,K/9 (Item 9 from file: 15)  
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01601214 02-52203

#### **Partnerships versus typical relationships between wood products distributors and their manufacturer suppliers**

Vlosky, Richard P; Wilson, Elizabeth J; Cohen, David H; Fontenot, Renee; et al

Forest Products Journal v48n3 PP: 27-35 Mar 1998

ISSN: 0015-7473 JRNL CODE: FPJ

WORD COUNT: 5865

...TEXT: complete prediction matrix with constructs and corresponding activities is presented in Table 1.

Research teams **gathered data** from wood product distributor respondents. Each team was given a **blank** version (i.e., no predictions) of the matrix depicted in Table 1 and asked to summarize the results of their in-depth interviews into yes/no answers after all interviews with the respondent(s) had been completed. This information is the basis for the degrees-of-freedom analysis, explained later.

#### THE RESEARCH TEAMS

Research teams, composed of academic professionals (faculty and graduate students) from the United States and Canada, were recruited to meet with the wood products distributor respondents to conduct the in-depth interviews necessary for case data collection. The project coordinators (Vlosky and Wilson) initiated contact with potential distributor respondents in each team's local area by phone and letter. Distributors were informed about the project and encouraged to participate. The local research team was identified so that the distributor would expect a follow-up call to set up an appointment.

While most teams studied one partnering relationship and one average relationship for a focal distributor and its suppliers, Dorothy Paun collected case data on five partnering and five average relationships. Thus, 10 case-study observations were made to note patterns and consistencies within relationship systems (22).

Teams were instructed to obtain answers to all the questions on the questionnaire but could also ask additional questions of their own to facilitate understanding about their particular distributor's situation and the case writing process, in general. Given the depth of the questionnaire, most research teams visited the distributor respondent on multiple occasions to gather the data. Following Eisenhardt's guidelines, semistructured questions offer qualitative data and scaled items provide quantitative data (8).

#### QUESTIONNAIRE OVERVIEW

The questionnaire used by the research teams consisted of four parts. First, distributors were asked general demographic information about their company. Next, the respondent was asked to identify his/her firm's best relationship with a manufacturing supplier. The partnering activities questions were asked in the context of this relationship. Third, the respondent was asked to identify a company with which the distributor firm had an average/typical relationship. The activity questions were asked again in the context of this average/typical supplier relationship. Finally, the respondent was asked to complete 30 scale items to gain additional measures about the partnering and average relationships. These items were adapted from other research studies (11,14,28).

(Table Omitted)

Captioned as: TABLE 1.

Two expert judges (not the authors) reviewed the questionnaire. Problems with question wording and other minor corrections were made before entering the field. The general format and many of the relationship activity questions were also pre-tested in earlier studies (26).

While the premise and execution of this research may seem intuitively simple, findings on specific defining activities of partnerships are scant. This approach allows for addressing the gap between the deductive models (1,7,17) and buyer-seller relationships in practice, as advocated by Weitz and Jap (29).

#### CASE-STUDY SUMMARIES

In this section, brief summaries from the findings of each research team are presented. Research team members cited in this section are included as authors on this article.

little logistics activity was reported between distributors and their suppliers. Only one firm reported joint activity for just-in-time inventory. Most respondents did not make any efforts to eliminate risk in shipments of products; 8 of 10 reported shipping products f.o.b. mill rather than f o.b. distributor's location.

Second, little activity was reported in the area of distributor promotions. Suppliers do not tend to be featured in the distributor's promotional literature, nor do distributors share customer lists with suppliers. Some respondents (50%) reported sales volume incentives from the supplier. Third, cooperative advertising was only reported by half of the respondents.

These findings, again, reflect the realities of the wood products industry. Since distributors and suppliers are often viewed as potential competitors (regardless of channel status), sharing of marketing resources (promotions, customer lists, advertising dollars) is rare. While not a source of partnering activity now, dealer promotions and cooperative advertising activities, like logistics, could be areas for future development, as the competitive environment becomes increasingly hostile.

Fourth, special manufacturing activities were not widely supported (we had complete data in only five cases; thus these findings are preliminary, at best). For example, UPC barcoding was not widely used (20% of firms) nor were special packaging services (40% of firms). These findings are not surprising, considering the nature of the industry. Vlosky and Smith (27) report that distributors tend to be relatively slow to adopt

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01293335 99-42731

**A better way to select medical equipment**

Hostutler, Jennifer J

Nursing Management v27n9 PP: 32M-32P Sep 1996

ISSN: 0744-6314 JRNL CODE: NSM

WORD COUNT: 1481

...TEXT: be nice to have). The quantity of new equipment also is identified.

\* Once each department **gathers** the **information**, a market search is conducted to look for **available manufacturers**. The **materials** management representative will use various reports to determine the available **manufacturers** of equipment to be evaluated. Vendors will be asked to provide the equipment's technical...

...users and installations. Materials management representatives will then coordinate with the medical engineering representatives to **match** acceptable vendors with the NAT. After compiling this information, the medical engineering representative will complete a Market Search Summary (MSS). The MSS **matches** the hospital required equipment parameters and desired features to the available vendor equipment specifications.

\* When the market search is complete, trial screening can begin. Trial screening allows the unit members to become familiarized with the vendor's proposed equipment, screen the equipment and eliminate unacceptable equipment before the trial begins.

\* Finally, during trial scheduling, each team member checks his/her department activity schedule for an acceptable time to start the trial and inservice process. The evaluation team determines which areas need to trial the equipment and how much equipment is needed. They also set up the clinical and engineering schedule and the order of rotation of equipment among departments.

(Chart Omitted)

Captioned as: EXHIBIT

2. The second phase, evaluation, is composed of four parts.

\* Clinical evaluation determines if a piece of equipment meets the needs of the trial department. It also measures the level of user satisfaction with the equipment. Comparing similar equipment trials allows the evaluation teams to determine which piece of equipment best meets the needs of the clinical department.

After proper inservices, the equipment will be evaluated on the units. Each employee will complete an evaluation form, which combines quick yes/no questions with a rating scale for overall satisfaction. More in-depth comments can be given if desired. Points are tallied and the comments recorded.

\* The financial evaluation collects information for bid comparison. Bid comparison requires the ranking of bids by their total financial cost to the organization, including all costs normally not included in the purchase price. It then provides a total comparative summary of solicited bids to be used as input for the al bid award meeting.

During this phase, a lit will be compiled of all manufacturers making the required equipment. After the MEES committee reviews the

9/3,K/11 (Item 11 from file: 15)

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01131064 97-80458

**The relevance of GAAP-based information: A case study exploring some uses and limitations**

Bouwman, Marinus J; Frishkoff, Paul; Frishkoff, Patricia A

Accounting Horizons v9n4 PP: 22-47 Dec 1995

ISSN: 0888-7993 JRNL CODE: ACH

WORD COUNT: 10670

...TEXT: information than is currently provided. The findings of this study show that they assess the **company** 's earnings potential by evaluating the earnings potential of the individual segments. This means that these segments must be economically meaningful, **matching** existing product lines and well-defined geographical areas. Barth et al. (1994) conclude that under the criteria set forth in SFAS No.14, reported segments frequently are too vague and general, and are often defined to conceal important operating information. Boatsman et al. (1993) empirically confirm that the coarse segment definitions which are frequently employed by firms provide little relevant information. The new segment guidelines currently considered by the FASB (1994), based on the "management approach," should considerably improve the meaningfulness of the reported segment and, consequently, its usefulness in assessing segment earnings potential. Analysts want both qualitative and quantitative segment information. They



want information about specific products and technologies, customers and competition. They want at least five (and preferably ten) years of segment data. They also want more comprehensive segment information including capital expenditures, research and development, cash flows, and liabilities. In contrast to the findings of the Special Committee (AICPA SCFR 1994), only one analyst requested interim segment data.

This study does not consider the costs of providing this additional information. Additional disclosures increase information preparation costs and may result in competitive costs to the firm. On the other hand, increased disclosures reduce the cost of capital by reducing the risk to the investor and are likely to reduce litigation costs (Elliott and Jacobson 1994). Elliott and Jacobson (1994, 94) conclude that the information preparation costs appear to be rapidly declining, and that "the most likely result is that ...methodology and objectives.)

#### Objectives of Protocol Analysis

The research objective of this study was to **identify** what **information** was used and for what purpose. **Identifying** what **information** was used meant examining the protocols for references to specific information items. This is a...

...refer to information in similar terms as used in the case materials. Moreover, the case **materials** are **available** during the protocol analysis, thereby allowing the researcher to follow the analyst's step-by-step progression through the documents. The second part of the research objective involves assessing the purpose for which the information is used. This means identifying the analyst's goals and classifying the associated sections of the protocol, called episodes, according to the type of goal being pursued.

#### Protocol Analysis Steps

The first step

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00968548 96-17941

#### **Master production scheduling for a process industry environment: A case study**

Venkataraman, Ray; Nathan, Jay  
International Journal of Operations & Production Management v14n10 PP:  
44-53 1994  
ISSN: 0144-3577 JRNL CODE: IJO  
WORD COUNT: 2856

...TEXT: the end items are assumed to be known for each period of the planning horizon.

#### **Data Collection**

Monthly demand **data** from January 1990 to November 1990 for the items in both lines were **made available** for analysis by the **company**. For the planning horizon of January 1990 to September 1990, the **company** also provided monthly data on production rates and costs, capacity, available manpower, regular time and...

...considered in this research. In addition, the results of the decisions actually implemented by the **company** for the planning horizon of January 1990 to September 1990 were **made available**. Because of **space** limitations, a complete listing of the data sets is not provided. However, these data inputs can be **made available** on request to the authors.

### Methodology

Initially, a demand analysis based on sales ranking for...

...paint line and the 12 items in the colourant line considered in this research were **made available** by the **company**. These inputs were used to provide the right-hand-side values for the goal constraints of the model. Finally, based on the perceptions of the management of the paint **company** on the relative importance of the goals considered in this research, the weights  $W_{sub\ 1}$ ,  $W_{sub\ 2}$  and  $W_{sub\ 3}$  in the ...of 1, 0.8 and 0.7 respectively. In other words, the management of the **company** believed that minimizing over-production was the most important goal, whereas minimizing excess inventory and overtime were respectively 80 per cent and 70 per cent as important as minimizing over-production. The weighted integer goal-programming model for the MPS problem was solved using What's Best (Industrial Version 1.6), which is a spreadsheet-based optimization software package developed by Lindo Systems Inc.[11] on a Plus Data 386 machine with a 387 mathematics co-processor.

### Results and Discussion

In this section the results obtained by solving the MPS model are presented. Since a complete listing of the master production schedules for all the items for all decision periods would be prohibitive, a sample output of the master production schedule for three items for the first three months of the planning horizon is presented in the Appendix. Table III shows a summary of the decisions actually implemented by the paint company in producing the 48 products for the planning horizon of January 1990 to September 1990.[Table III omitted] Table IV shows a summary of the results of the model's application to the planning horizon of interest.[Table IV omitted] Finally, Table V presents a cost comparison between actual company performance and the model results.[Table V omitted]

Analysis of Table V indicates that the model results are superior to actual company performance in terms of total cost. The weighted integer goal-programming approach provided an overall cost savings of \$334,053, when compared with actual company performance. The goal-programming approach provided substantial cost savings for the paint items in Line 1. However, for the colourant items in Line 2, model results indicate that the costs are slightly higher when compared with actual company performance. The primary reason for these results is that the model takes into account three periods of demand, whereas the company produced items for this line to satisfy demand only for the immediate decision period. Analysis of Tables III and IV indicates that both the production and inventory levels for Line 1 in the goal-programming approach were much smoother than those actually achieved by the company. Results from Table III suggest that the company may be building up high levels of inventory in anticipation of demand during the peak summer months. The goal-programming approach, on the other hand, focused on minimizing unwarranted inventory build-up during these slack months of demand and hence was able to achieve substantial savings in inventory costs.

### Conclusions

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00919075 95-68467

**Monitrix's tricks keep tabs on your LAN**

Gryphon, Robert  
InfoWorld v16n39 PP: 97-98 Sep 26, 1994  
ISSN: 0199-6649 JRNL CODE: IFW  
WORD COUNT: 2521

...TEXT: applications, configuration files, environment variables, asset information, and a configuration file change log. The system **gathers** much of this **information** during the periodic inventory scans, and it leaves **blanks** for the information that it can't automatically obtain.

One problem we discovered is that...

...working on an improved database of recognized hardware and software components, which it expects to **make available** on the **company**'s BBS before the end of the year.

Aside from these problems, the inventory management system proved highly functional. The interface for browsing nodes on the network is quick and easy to use--you can display nodes in various hierarchical layouts, depending on your mission. Monitrix earns a good in this category.

Queries and reports: Many software companies make the mistake of trying to reinvent the wheel and include a proprietary report-writing module with their applications. Cheyenne opted to skip this development process and to instead spend the money on a distribution license for Crystal Reports. This report writer is one of the easiest to work with, and even moderately knowledgeable users can create professional layouts with it.

The 32 standard reports provided with Monitrix look professional and are suitable for use as templates for your own custom reports. The printing interface includes a print preview feature that can be employed as a crude on-line query tool. As an important bonus for report designers, Appendix C in the Monitrix User Guide contains a data dictionary for the entire inventory and monitoring database. Monitrix suffers in comparison with McAfee Associates Inc.'s Brightworks, which also uses Crystal Reports (see Reviews, May 9, 1994, page 94), primarily because Monitrix lacks real query tools. Nevertheless, the product's impressive array of standard features and extras earns the reporting component a rating of very good.

Security: Monitrix does not offer any security features over and above those provided by NetWare. For example, there is no built-in time-out or screen saver password facility. If the network administrator starts the application and then walks away from his desk, anyone can come in and use the tool. On the other hand, Monitrix does not create holes in NetWare security, such as requiring Allow Unencrypted Passwords to be set to "on." We rate security satisfactory.

**DOCUMENTATION:**

Monitrix's printed documentation is well executed. The manual is not overwhelmingly thick, yet it provided answers to virtually all of our questions, and almost every section is laid out as an easy-to follow tutorial of a particular subset of features. Complementing the text are explanatory screen shots, diagrams, and tables, all of which make up perhaps a third of the documentation. The main volume is the User Guide,

with installation broken out into a separate manual. Also separate is the Reports Guide, a rewrite of the Crystal Reports manual. The indexes are not as thorough as they could be, but the overall format of the manuals is consistent and easy on the eyes.

The on-line help contains much practical information and is laid out in a generally attractive format. The help system is context sensitive, with access via the F1 key throughout the application. Unfortunately, several things detract from its usefulness. For example, help topics called up by pressing the Help button on a particular dialog do not describe the entire dialog in some cases, or do not refer to some fields in the

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00879728 95-29120

**Planning just-in-time supply operations: A multiple-case analysis**

Ferrin, Bruce

Journal of Business Logistics v15n1 PP: 53-69 1994

ISSN: 0735-3766 JRNL CODE: JBL

WORD COUNT: 4556

...TEXT: in purchasing, transportation, receiving, storage, and use characteristics among the different materials.

As a result, **manufacturers** may group purchased materials according to similarities in logistics and production requirements. A method of...

...Think of these different supply methods as micro-channels. A micro-channel is a specific **match** of order release procedures, suppliers, carriers, purchasing techniques, transportation services, and receiving practices, designed to meet objectives by accomplishing the supply activities for a specific group of materials.

Thus, it is necessary to recognize that, as defined above, a supply channel is a macro concept. In other words, when planning supply operations, one must realize some supply activities, such as receiving and material control, will affect all materials. Others, such as carrier performance, may affect specific materials only.

Although any manufacturer is concerned with material lead times and delivery reliability, the JIT supply manager must seek to minimize lead times and maximize delivery reliability. Theoretically, the general objective of any JIT supply channel is always to have the exact quantity of any material required for production available at the exact instant needed. (1)

However, it appears likely that inbound logistics systems in the United States cannot attain the performance levels theoretically required to support JIT production. Even if a United States firm could reach an optimum level of inbound logistics performance, it would be difficult to sustain. The great size of the United States means that material movements often must cover long distances. As a result, material movements in the United States are inherently subject to variation in delivery time and reliability.

Because of the size of the country, and the resulting geographic dispersion of suppliers, it can be very difficult for JIT firms in the United States to employ micro-channel supply systems like those used in Japan. According

Field visits to the three firms lasted between two and three days each. Extensive interviews, with a total of 29 managers from the three firms, were used to gather data. Table 1 shows the functional responsibilities of the interview subjects. A typical interview lasted between 90 minutes and two hours. Interviews included one-on-one and group sessions. Audio tapes were made with the permission of the participants. The interviews were unstructured.

Table 2 presents a comparison of the three sites. (Table 2 omitted) Company A was very deeply involved in JIT supply. Company C was just starting the process of implementing the JIT philosophy in its dealings with suppliers. JIT innovation had not yet affected its carriers. Classifying Company ...To plan JIT supply micro-channels, firm A depends primarily on daily usage, supplier location, **available space** in the plant, plant delivery time requirements, and receiving constraints. The difficulty of **obtaining data** on some decision factors included in the model may explain this.

Thus, it appears that the model of JIT supply has some validity as a predictor of management activity in planning JIT supply micro-channels. Only one investigation comprehensively supported the model. However, this should not lead to rejection of the model's validity. Corporate culture and management philosophy prevented the other two firms from developing planning procedures consistent with the model.

However, as a predictor of actual practice in the control of JIT supply micro-channels, the rational planning process defined in the research seems invalid. The investigation of the three firms revealed that none of them specified, in

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00813087 94-62479

**Manufacturing competence and business performance: A framework and empirical analysis**

Kim, Jay S; Arnold, Peter

International Journal of Operations & Production Management v13n10 PP:  
4-25 1993

ISSN: 0144-3577 JRNL CODE: IJO

WORD COUNT: 6614

...TEXT: of fit between competitive priorities and manufacturing's strengths) should yield better business performance. The **remaining sections** of this article will address key issues that are involved in empirically testing this conjecture, such as developing measures to represent manufacturing competence, **collecting data**, and statistically relating these two constructs.

Before we proceed to describe the methodology and data, however, we must note here that there are two issues surrounding this research question.

First, what are the measures that represent relevant business performance? Unlike other traditional research areas in operations management (i.e. inventory control or scheduling), the field of manufacturing strategy has not yet developed a well articulated set of performance measures with which to test a theory. Since issues in this field tend to be broader in scope, a general tendency is to use a set of business-level (more specifically,

financial and market) performance measures, such as profitability, market share, or growth rate[4,9]. We do not intend to challenge this general tendency, nor is it our purpose here to discuss what is a single most important performance measure to be used in manufacturing strategy research. Our study is more focused on exploring possible linkages between business performance measures and manufacturing competence.

Second, our model of manufacturing competence starts with the assumption that there exists a sound business strategy. We do not address how a business strategy should be developed within a particular competitive environment, nor do we test whether a specific type of business strategy affects various performance measures differently. A part of the business strategy could well be to determine what performance measures (either return on assets, growth rate, or market share) should be emphasized. Manufacturing competence (as defined here) may affect business performance differently depending on the nature of business strategy. Future studies should investigate questions like, if a firm's business strategy calls for a dramatic improvement in market share, then does the manufacturing competence matter? We classified these issues in Figure 1 as "strategic competence", and they are beyond the scope of this article.

#### SURVEY INSTRUMENT AND DESCRIPTIVE DATA

In this section, we briefly describe the survey methodology that was used to collect the data for this study. Then we present the descriptive information on competitive capabilities that was found from the survey.

##### The Survey Instrument

The data used in this study are derived from the 1990 US Manufacturing Futures Survey conducted by Boston University Manufacturing Roundtable. (For detailed information about the survey, see[11,12].) The project was initiated in 1981 with the purpose of developing a comprehensive data set that can be used to study the strategic aspects of manufacturing management. For the last ten years, the survey has been refined significantly, and results from the series of surveys have been analysed by many researchers and published over the last decade[13,14].

The survey was specifically designed to gather information ...shown in Figures 2 and 3. (figure 2 and 3 omitted) They clearly show the **match** (or mismatch) between importance and strength of each competitive capability. Overall respondents show that they...

...When compared to the relative measures of importance, it can be seen that average US **manufacturers** are short of strength in some competitive capabilities (most strikingly the price capability) that are...

...appears in the upper right-hand quadrant of the consumer sector map, showing a competitive **match**. In contrast, the same capability appears in the lower right-hand quadrant of the electronics sector map, indicating that electronics **manufacturers** have above-the-average strength in distribution capability even though it is perceived as relatively unimportant. This contrast suggests that two firms can have equally competent manufacturing even if their strengths or weakness in each capability are considerably different.

##### Manufacturing Competence Index: Model

This match of mismatch shown on the competitive map indicates whether a firm's manufacturing function has strength where it matters. If a firm's map shows most capability points in either the upper-right or the

**9/3,K/16 (Item 16 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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00752814 94-02206

**Bearing upgrade reduces vibration and improves unit load**

Herbage, Bernard S

Power Engineering v97n7 PP: 41-43 Jul 1993

ISSN: 0032-5961 JRNL CODE: PEG

WORD COUNT: 1381

...TEXT: two retrofits described here, no design or dimensional details were obtained from the original equipment **manufacturer**. The bearing vendor made complete measurements of the **space available** and the shaft dimensions. Using this information a new bearing was designed. Public Service Indiana made certain that all necessary machine elements were **made available** for **gathering** the complete **information** needed for the designs.

THE AUTHOR

Bernard S. Herbage is a vice president of Imo Industries Inc., and a technical director of the company's TurboCare Division. He holds a BS degree in mechanical engineering from Bradley University and is a registered professional engineer in Texas.

**9/3,K/17 (Item 17 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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00654544 93-03765

**1992 and the Hospitality Industry: A Review of Information Provision**

Thomas, Rhodri

International Journal of Contemporary Hospitality Management v4n2 PP: 3-7  
1992

ISSN: 0959-6119 JRNL CODE: IJH

WORD COUNT: 3471

...TEXT: a strong positive correlation between price and quality of information. There is a plethora of **material available** (very often free of charge) from various official European and national bodies. Table I gives...

...the publishing practices of the EC (some guides are discussed below) but much useful general **information** can be **obtained** with relative ease. The European File series, for example, is worth consulting for a concise introduction (about 12 pages) to issues. European Documentation booklets are more comprehensive, dealing with many of the same policy areas in more detail. Both are free and available from Commission offices. The Commission also publishes a brief news bulletin entitled The Week in Europe which, as the title suggests, alerts readers to what are considered to be the significant EC events of the week. The same bulletin may, therefore, have a paragraph on monetary union, agriculture and social policy. Its brevity prevents it doing any more than notifying readers of current issues, though it is often supplemented by Background Briefings which make a basic contribution to contextualizing developments. Naturally, as with all official publications, a degree of caution has to be exercised in terms of evaluation; official documents will give an official view.

Much useful information can also be obtained from the Department of Trade and Industry. For general guidance, it is worth consulting The Single Market: The Facts ...by local Chambers of Commerce. Other arrangements include the Liverpool Centre which is a limited **company** with its directors being drawn from the public and private sectors, the Department of Employment...

...service for straightforward requests, consultancy and a good selection of databases. Furthermore, most offer a **company matching** service to encourage co-operation amongst SMEs in different member states(29). The extent to which hospitality firms have exploited this facility is the subject of a current research project by the author.

A network of European Documentation Centres (EDCs) has also been established by the European Commission to encourage the study of European affairs. Not surprisingly, these tend to be located in universities and polytechnics and contain a comprehensive stock of EC literature, much of which would be of interest to managers. To a large extent, of course, individuals would be left to find their own way around the material. Some consultation of a guide is, therefore, appropriate.

As has been discussed previously, there is certainly no shortage of high quality general literature available to hospitality managers. More work is required, however, to assess the impact of the SEM on the hospitality industry and to examine the extent to which information provision is likely to have a bearing on the ability of hospitality firms to adapt effectively to a new challenging environment.

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3. Axford, B., Deacon, D., Shaw, S. and Turner, J., "The Single European Market and Small Businesses: Evaluations of and Responses to a Changing Environment", European Research, Vol. 2 No. 4, 1991, pp. 1 and 4.
4. For example, Small

9/3,K/18 (Item 18 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00647652 92-62592

#### **1992 and the Hospitality Industry: A Review of Information Provision**

Thomas, Rhodri

European Business Review v92n2 PP: 46-51 1992

ISSN: 0955-534X JRNL CODE: EBR

WORD COUNT: 3469

...TEXT: a strong positive correlation between price and quality of information. There is a plethora of **material available** (very often free of charge) from various official European and national bodies. Table I gives...

...the publishing practices of the EC (some guides are discussed below) but much useful general **information** can be **obtained** with relative ease. The



European File series, for example, is worth consulting for a concise introduction (about 12 pages) to issues. European Documentation booklets are more comprehensive, dealing with many of the same policy areas in more detail. Both are free and available from Commission offices. The Commission also publishes a brief news bulletin entitled The Week in Europe which, as the title suggests, alerts readers to what are considered to be the significant EC events of the week. The same bulletin may, therefore, have a paragraph on monetary union, agriculture and social policy. Its brevity prevents it doing any more than notifying readers of current issues, though it is often supplemented by Background Briefings which make a basic contribution to contextualizing developments. Naturally, as with all official publications, a degree of caution has to be exercised in terms of evaluation; official documents will give an official view.

Much useful information can also be obtained from the Department of Trade and Industry. For general guidance, it is worth consulting The Single Market: The Facts now ...by local Chambers of Commerce. Other arrangements include the Liverpool Centre which is a limited **company** with its directors being drawn from the public and private sectors, the Department of Employment...

...service for straightforward requests, consultancy and a good selection of databases. Furthermore, most offer a **company matching** service to encourage cooperation amongst SMEs in different member states(29). The extent to which hospitality firms have exploited this facility is the subject of a current research project by the author.

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As has been discussed previously, there is certainly no shortage of high quality general literature available to hospitality managers. More work is required, however, to assess the impact of the SEM on the hospitality industry and to examine the extent to which information provision is likely to have a bearing on the ability of hospitality firms to adapt effectively to a new challenging environment.

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2. Cumbepatch, Z. and Rennie, J., "Towards 1992: Dutch and UK Business Information Resources Compared", Business Information Review, Vol. 6 No. 4, 1990, pp. 24-35.
3. Axford, B., Deacon, D., Shaw, S. and Turner, J., "The Single European Market and Small Businesses: Evaluations of and Responses to a Changing Environment", European Research, Vol. 2 No. 4, 1991, pp. 1 and 4.
4. For example, Small Business Research

9/3,K/19 (Item 19 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00636203 92-51143

**Object Behavior Analysis**

Rubin, Kenneth S.; Goldberg, Adele

Communications of the ACM v35n9 PP: 48-62 Sep 1992

ISSN: 0001-0782 JRNL CODE: ACM

WORD COUNT: 8283

...TEXT: work, and presented them in the form of scripts. The scripts are linked together by **matching** postconditions with preconditions, giving a larger picture of how actions might progress in the system. In doing so, we identify a number of **parties** that act as either initiators, participants or both. In addition, we identify the contracts and the required participant services, as well as the logical properties of the **parties** needed to invoke or carry out services. We are now ready to select the **parties** that should be analysis objects.(6)

To do so, we first note that initiators that...

...indicate that the card was initiated by the analyst as a way to summarize already **obtained information**. A change to this fourth trace occurs only in Step 3. In addition to the

**9/3,K/20 (Item 20 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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00607514 92-22617

**Computer Technology for Manufacturing: The Next Generation**

Gadre, Anil

Manufacturing Systems v10n4 PP: 40-49 Apr 1992

ISSN: 0748-948X JRNL CODE: MFS

WORD COUNT: 3674

...TEXT: The simplicity of the technology reduces user training and support costs.

For developers in manufacturing **companies** creating new applications, object-oriented technology is a major time-saver, because programmers can mix and **match** objects to quickly create new applications. With object-oriented development, objects can be designed using conventional programming languages, allowing **companies** to leverage their current investments in software.

Some companies are already offering products that include object-oriented technology. SunSoft, the system software subsidiary of Sun Microsystems, for example, has released ToolTalk, a facility for application interoperability on multi-vendor networks. ToolTalk is used by independent applications to communicate with each other. Applications from different developers communicate by creating and sending ToolTalk messages, which ToolTalk then delivers to the appropriate applications. By letting applications communicate, developers can integrate their programs across the network. It is the first step toward true application interoperability.

In short, distributed object-oriented technology lets users locate and identify objects no matter where--or on what type of system--they exist: on a network, several networks, or across wide-area networks.

IN CLOSING

Many of the technologies described have already arrived whether in laboratory setting or in beta testing at customer sites. Even so, they represent just the tip of the iceberg of a new generation of products and services being developed for the '90s. Manufacturing companies will be significantly impacted by Unix technologies in this decade; successful companies will be those that begin exploring the implications for their situations early.

#### STILL MORE TO COME

In the Unix workstation realm, we can expect to hear about multimedia until the room starts to spin, about standards until we think they really exist, and about user interfaces until we start to wonder if GUIs are Gummybears.

Meanwhile, there are numerous advanced technologies that will become commonplace in manufacturing this decade other than those related to Unix or workstations. Among them are rapid prototyping systems, virtual reality, stereo computer-aided design (CAD) systems and pen-based computing.

Let's start at the farthest reaches of the manufacturing mind--virtual reality (VR). At many high-tech trade shows, helmet/goggle systems are shown that put the wearer into another world, one controlled by a computer and manipulated by the viewer through a concept called virtual reality. The computer, through high-resolution graphics projected onto the goggle lenses, creates an environment that can best be compared to high-end pilot training systems. The first few minutes are disconcerting and more than a little "Alice in Wonderland"-ish as the mind tries to sort out this strange vision of a world that doesn't exist. Then, as the eyes become accustomed to the graphics and accept them as real, you begin to "play" with the new reality. As the hand, encased in a sensor-studded glove, moves, it can be seen in the lenses. You follow your movements as you reach out and touch something...that isn't there. You can pick up things that don't exist as solids in the real world but that the computer makes seem real. Through the computer's interaction with the sensors, you can move the items around in this virtual world--although the lack of tactile feedback is confusing.

Virtual reality is controlled by a computer and can be programmed to be whatever you--or the programmer--want it to be. Buildings can float or fall in impossible ways; people who don't exist can be holding conversations (there are audio inputs as well as visual) with things that can't talk (is this why people still see Elvis?); and movement is not controlled by gravity and space/time considerations.

So what has this got to do with manufacturing? NASA is using it now for simulation of space activities, the Naval Oceans Systems Center has a system working and, wouldn't you know it, a Japanese firm is using it to design and "build" a virtual-reality kitchen! VR allows people to work within designs that are years away from physical reality. Engineers can walk through an ergonomics exercise with a new design to prove or disprove its practicality. Manufacturing engineers can "see" the process of a new product's development and head off conflicts in a manner that is one, or perhaps several, steps beyond computer simulation. After all, what is better than actually following along with changes in a process as the computer projects them rather than watching them on a little screen? How far away is VR? It had its first trade show this year, in the virtual-reality capital, New York City. There were two days of seminars and panels with presentations by NASA, Matsushita and others. It has its own newsletter Virtual Reality Report, a sure sign of progress. As an extension of the growing realm of artificial intelligence, VR is still a newborn. But don't look over your shoulder; what you see gaining on you might be real...or it might be virtual.

While virtual reality creates a "walk-through" world, stereo CAD allows some of the same depth without the same ability to "touch" and manipulate the elements of the computer-generated world. StereoGraphics Corp., San Rafael, Calif., has a system that produces an image on a computer screen that seems more like a hologram than a 3-D solid model. Although you have to wear "goggles," this method should not be confused with the "red-'n'-blue glasses" version or 3-D viewing popularized by movies in the 1950s (OK, it never was popular, I'm just kidding).

According to StereoGraphics, "In the mechanical design environment, a study demonstrated that stereo viewing improved accuracy by two to four times, resulting in fewer design errors and engineering change notices. Complex wire frame drawings, once an amorphous web of lines, become immediately understandable. Peaks ...or slung on a worker's belt. All these pen-based computers can function as **data collection** systems, using a fill-in-the-**blanks** form on the screen. Next-generation applications will allow detailed entries in handwriting to be understood by the host computer.

Indicative of the future of pen computing in manufacturing, Archway Systems, Huntington Beach, Calif., is releasing PenDrafter, a full-featured CAD software package for pen computers. PenDrafter is derived from Computervision's VersaCAD software and works on a variety of pen computers running Computer Intelligence Corp.'s PenDOS, a version of MS-DOS. It has a DXF translator that offers nearly 100 percent translation between popular CAD software and PenDrafter.

These are a few of the new technologies that have direct application to manufacturing improvement in the near future. Others, such as space assembly, genetic engineering of workers, and reproductive strategies for automated systems, will have to wait. For a while.

9/3,K/21 (Item 21 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00544970 91-19315  
**The Sales Virtuoso**  
Gutman, Dan  
Success v38n4 PP: 25-30 May 1991  
ISSN: 0745-2489 JRNL CODE: SCS  
WORD COUNT: 2633

...TEXT: traditional keyboard. You wouldn't use it for word processing, but it's perfect for **data** entry, **data collection**, and other "fill-in-the-**blank**" tasks. It's just 4.5 pounds and has about the same dimensions as a ...

...20. "This computer is just a speed demon," says Finkelstein.

The only problems that laptop **manufacturers** have yet to solve are the short battery life (two to four hours) and the display, which will probably never **match** the brightness and resolution of a full-size monitor. But most people are willing to put up with these flaws to have a computer that will slip into a briefcase and still leave room for . . . well, all the other stuff in this article.

PORTABLE PRINTERS For printing on the run

The paperless office has yet to arrive. Much of your mobile office work can be done electronically, but you still need paper for purchase orders, receipts, expense reports, correspondence, and last-minute changes. If you

use a laptop for serious work, you probably want a printer to go with it. Having one on hand means you don't have to go back to the office to mail a completed contract to the customer. The customer doesn't have time to change his mind.

Just like computers, printers have shrunk down to an incredibly tiny size. There are three main attributes to look for in a portable printer: print quality, speed, and portability.

As far as quality goes, it is tough to top the Canon BJ-10e (\$499). The ink-jet output is so sharp, it can be difficult to distinguish from laser printing. At 8.5 by 12.2 by 1.9 inches, it fits comfortably in a briefcase with a notebook computer. It's quiet (45 decibels), inexpensive to operate (3.5 cents per page), easy to use, and it will run on AC current or batteries.

If you care less about print quality than just getting the job done fast, look at Kodak's Diconix 150 Plus (\$500). It can spit out 180 characters per second (versus 83 for the BJ-10e). It's also smaller, lighter (3.7 pounds compared with 4.6 pounds), and can print on fanfold computer paper (the BJ-10e requires single sheets). Kodak makes versions for both IBM-compatible and Macintosh computers.

The smallest printer we know of is The Road Warrior WsP-200 (\$400) by Computer Products Plus, Huntington Beach Calif. It has a small footprint -- 11.5 by 6.75 by

**9/3,K/22 (Item 1 from file: 610)**  
DIALOG(R)File 610:Business Wire  
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00352584 20000829242B8082 (USE FORMAT 7 FOR FULLTEXT)  
**SmarterKids.com Introduces Free Online 'State TestPrep' Center**  
Business Wire  
Tuesday, August 29, 2000 08:46 EDT  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 668

TEXT:

...SmarterKids.com's assessment experts questions about standardized testing. In the TestHelp section, parents can **gather information** regarding when their state's standardized tests will take place and what subjects will be...

...resources that have been compiled based on the input of parents and analysis of the **materials** previously **available**. The Center has tremendous appeal to parents who are involved in their children's education, and complements the Grade Expectation! guide we launched in March 2000."

...discover, and grow.

The site offers one of the Internet's most personalized shopping experiences,

**matching** a child's learning style and needs with teacher-reviewed toys, games,

books, software, music, and videos. The **company** features specialty centers for

special needs and gifted children, the Grade Expectations! guide to

education...

...Toys and Games category. SmarterKids.com is headquartered in Needham, Mass. More information on the **company** can be found at [www.smarterkids.com](http://www.smarterkids.com).

(1) CARVAN survey conducted by ORC International, April 2000

CONTACT: SmarterKids.com  
Pauline O'Keeffe, [pokeeffe@smarterkids.com](mailto:pokeeffe@smarterkids.com)  
Jennifer Aprile, [japrile@smarterkids.com](mailto:japrile@smarterkids.com)  
781-449-7567  
or  
Schwartz Communications  
Jane Carpenter, [janec@schwartz-pr.com](mailto:janec@schwartz-pr.com)  
Ariana Karsan, [akarsan@schwartz-pr.com](mailto:akarsan@schwartz-pr.com)  
781-684-0770

URL: <http://www.businesswire.com>

Set	Items	Description
S1	50901	(SCRAP OR UNUSED OR USABLE OR REMAINING OR AVAILABLE OR LEFT() OVER OR UNCUT OR UNPUNCH? OR UN() (CUT OR PUNCH? OR SHEAR? - )) (2N) (METAL OR MATERIAL? OR SECTION? OR SPACE OR PIECE?) OR - BLANK? ? OR SKELETON
S2	487892	MATCH??? OR (MAK??? OR MADE) () (AVAILABLE OR ACCESSIBLE)
S3	4397106	FABRICATOR? OR MANUFACTURER? OR METALWORK? OR COMPAN??? OR PARTIES
S4	246849	(COLLECT??? OR GATHER??? OR AMASS??? OR ACCUMULAT??? OR OBTAIN??? OR FIND??? OR IDENTIFY??? OR IDENTIF???) (3N) (INFORMATION OR DATA OR SIZE OR SIZES OR THICKNESS? OR GAGE OR SPECIFICATION? OR SPECS)
S5	582	S4(S)S1
S6	241885	S2(S)S3
S7	34	S5 AND S6
S8	33	RD (unique items)
S9	22	S7 NOT PY>2001
S10	2299	(UTILIZ? OR OPTIMIZ?) (1N) LAYOUT? OR NESTING
S11	7	S10(10N)S1
S12	18	S10(S)S1
S13	17	RD (unique items)
File	15:ABI/Inform(R)	1971-2006/Mar 30 (c) 2006 ProQuest Info&Learning
File	610:Business Wire	1999-2006/Mar 30 (c) 2006 Business Wire.
File	810:Business Wire	1986-1999/Feb 28 (c) 1999 Business Wire
File	476:Financial Times Fulltext	1982-2006/Mar 31 (c) 2006 Financial Times Ltd

**13/3,K/1 (Item 1 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
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02567873 269207091  
**Office of Learning Technologies Literature Database**  
Grafstein, Ann  
Online Information Review v25n4 PP: 277--278 2001  
ISSN: 1468-4527 JRNL CODE: ONCD  
WORD COUNT: 540

...TEXT: operators as textual material.

There is an Expert Search button that links to a single **blank** search bar. There are instructions below it to enter combinations of words from documents or...

...search syntax. Expert Search allows greater flexibility. It supports standard Boolean searching as well as **nesting**, for example, "(colleges or universities) and libraries".

OLT's Literature Database is clearly intended for Canadians. It includes citations from several Canadian indexes. One might wonder, therefore, how useful the database is outside of the Canadian context. However, most of the citations that I retrieved in a variety of searches came from the ERIC database, which can be searched from anywhere for free. For this reason, in addition to the rather non-standard searching software, the Literature Database would appear to be of limited usefulness.

Ann Grafstein

College of Staten Island

**13/3,K/2 (Item 2 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
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02150246 67507572  
**Stamping strip layout for optimal raw material utilization**  
Nye, T J  
Journal of Manufacturing Systems v19n4 PP: 239-248 2000  
ISSN: 0278-6125 JRNL CODE: JMY  
WORD COUNT: 4579

...TEXT: and Sekhon.10

This paper is concerned with the problem of orienting a single, arbitrary **blank** on a strip so that raw material is optimally utilized. The **blank** is represented as a simple polygon, that is, as an irregular polygon that may or may not be convex, but has no holes. (Holes in a stamping are ignored for **blank** layout.) **Blanks** with curved edges are approximated as polygons, with the approximation improving as the number of...

...polygon increases. It is assumed that the width of the strip is determined during the **layout optimization** rather than being prespecified before the layout work starts. The cost of the raw material...

...widths. In the remaining discussion, bridge width,  $w_B$ , the extra amount of material around the **blank** that forms the '**skeleton**,' is accommodated



by 'growing' the **blank** by one half the bridge width before optimization starts. Optionally, an additional 'edge' width,  $w$

sub E

, can be added to the skeleton, as shown in Figure 1. Naturally, blanks are not allowed to overlap, and strip width,  $ws$ , is set equal to the minimum width necessary for the blank at a given orientation.

Given these assumptions, this paper describes a new, exact algorithm for finding optimal blank layout on a strip. Previous work on this problem is surveyed in the next section, followed by an introduction to the Minkowski sum, a concept from the computational geometry field that is especially useful in determining whether adjacent polygons overlap. The Minkowski sum is then incorporated into an algorithm that optimizes material utilization, and an example is used to demonstrate the use of the algorithm. Finally, a discussion of conclusions is given.

#### Previous Work

The earliest approach to this problem seems to be due to Adamowitz and Albano.<sup>11</sup> They proposed packing a blank into a rectangular box of minimum area that is then repeated along a strip. The orientation of the blank in the minimum area box is used as the optimal orientation when designing the blanking die. Nee<sup>12</sup> and Martin and Stephenson<sup>13</sup> have also used this approach. In general, however, this approach does not lead to optimal layouts. For example, consider a parallelogram-shaped blank. A parallelogram will nest along a strip with zero waste, but an enclosing rectangle will add waste material at each end of the blank. Thus, using the enclosing rectangle can preclude an optimal layout from being achieved.

Enclosing the blank within other packing shapes has also been examined. Chow<sup>14</sup> packed blanks into known interlocking shapes that were then repeated along the strip. Qu and Sanders<sup>15</sup> packed blanks into composites of nonoverlapping rectangles. Dori and Ben Bassat<sup>16</sup> and Karoupi and Loftus<sup>17</sup> packed blanks into convex polygons. Just as with packing blanks into rectangles, these approaches build waste material into ...negligible compared to potential lifetime material savings.

#### Conclusions

A new, exact algorithm for optimally orienting **blanks** on strips has been described in this paper. This algorithm overcomes the limitations of previous approaches to this problem to quickly calculate **blank** orientations and strip widths that maximize material utilization. Implementation in CAD systems and tooling-design...

...the Minkowski sum, which no doubt will also prove very useful in other types of **nesting** problems.

As stamping is almost by definition a high-volume manufacturing operation, even tiny per...

...more than one part from the same strip increases material utilization. An exact algorithm to **optimize** the **layout** of two or more **blanks** on a strip would be very useful for these problems. A special subclass, which might be computationally more efficient, is when **blanks** are mirror images of each other. Another useful domain extension is to consider 2D layout problems, such as are encountered when cutting **blanks** from sheets. The Minkowski sum is likely to be a useful tool in these problems as well.

Figure 9

Figure 10

Figure 11

Appendix

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T.J. Nye, Mechanical Engineering Dept., McMaster University, Hamilton, Ontario, Canada. E-mail: nyet@mcmaster.ca

## Author's Biography

Tim J. Nye is an assistant professor in the Mechanical Engineering Dept. at McMaster University (Hamilton, Ontario, Canada). Dr. Nye received his BAsE in mechanical engineering from the University of Waterloo, his MSc in industrial and systems engineering from Ohio State University, and his PhD in operations research from the Management Sciences Dept. at the University

of Waterloo. His research interests include the application of optimization techniques to manufacturing operations, development of solid freeform fabrication processes for forging and casting, design of manufacturing systems, and examining stochastic, queuing-based lot-sizing models. Dr. Nye is currently a member of SME, NAMRI/SME, ASME, INFORMS, CORS, and PEO.

**13/3,K/3 (Item 3 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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01988543 50317013

**An integrated machine vision based system for solving the nonconvex cutting stock problem using genetic algorithms**

Anand, Sam; McCord, Christopher; Sharma, Rohit; Balachander, Thiagarajan

Journal of Manufacturing Systems v18n6 PP: 396-415 1999

ISSN: 0278-6125 JRNL CODE: JMY

WORD COUNT: 11111

...TEXT: the entire bill of manufacturing simultaneously and lays out several sheets together. Their algorithm for **nesting** irregular-shaped parts is based on an approximation of irregular parts to a composite of...

...than the layouts developed by human operators. Heistermann and Lengauer<sup>18</sup> reported an algorithm for part **nesting** on irregular surfaces that is characterized by selective data reduction, sequential part placement, and a topological part placement process. Prasad<sup>19</sup> developed a set of intelligent **nesting** algorithms for **nesting** irregularly shaped sheet metal **blanks** for the sheet metal stamping industry. Lamousin, Waggenpack, and Dobson<sup>20</sup> adapted Albano and Sapuppo's technique and came up with an algorithm that aims to nest complex parts onto irregular resources especially applicable to the offshore platform and ship building industry.

Nee and Seow<sup>21</sup> present a graphics-based approach for part nesting on irregular sheets with internal bad patches. The parts are described using a graphics routine and polygonalized. Repetitive parts are grouped pairwise to form small nesting modules. These modules are further clustered using a rectangular packing routine.

Probabilistic approaches have also been attempted ...Modules," Computer Aided Design (v8, n1, 1976), pp27-33.

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**13/3,K/4 (Item 4 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
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01788137 04-39128  
**Hybrid modeler includes assemblies and rendering**  
Anonymous  
Machine Design v71n5 PP: 226 Mar 11, 1999  
ISSN: 0024-9114 JRNL CODE: MDS  
WORD COUNT: 256

...TEXT: new standards for CAM. It adds new functions including milling, turning, wire EDM and part **nesting**. The software supports full modeling of in-process workpieces for advanced material removal analysis. The...

...aspects such as five-- axis swarf-cutting, bitangent machining, pencil tracing, and automatically cleaning out **remaining material**. Varimetrix Corp., 2350 Commerce Park Dr., Suite #4, Palm Bay, FL 32905, (407) 676-3222, www.vx.com, Booth 636 at NDES.

Circle 428

(Photograph Omitted)

Captioned as: This Samsung Motor Co. engine has been modeled and rendered in VX Vision. The software provides strong support for assembly-centric modeling, a concept fundamental to the VX Vision philosophy. An object-oriented database gives the software unprecedented speed and efficiency, essential qualities when working with large assemblies.

**13/3,K/5 (Item 5 from file: 15)**  
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01782674 04-33665  
**VX Vision**  
Mills, Robert  
Computer-aided Engineering v18n3 PP: 27, 88 Mar 1999  
ISSN: 0733-3536 JRNL CODE: CAE  
WORD COUNT: 832

...TEXT: it furthers that approach in VX Vision. Functions include milling, turning, wire EDM, and part **nesting**. Modeling of in-process workpieces is supported for material removal analysis. Some of its more...

...be 5-axis swarf-cutting, bi-tangent machining, pencil tracing, and automatic cleaning out of **remaining material**.

VX Vision provides a standard Windows user interface, but Crown says the firm has still been able to streamline the CAD process and maximize screen

space available for graphics. "We worked very closely with a large group of skilled users during the development of the product to ensure it is fully functional, easy to use, and highly productive," he says. The firm plans on selling the product through value-added resellers (VARs), direct sales, and on-line sales.

User's View: PML Inc., an engineering service bureau, has been beta testing VX Vision for about six months. The company specializes in "paperless manufacturing", in which customers provide proposed designs via CAD or existing parts. PML then develops prototype tooling, sample parts, and occasionally production parts using computer technologies. It has seven CAD/CAM users.

"I am very impressed with the product so far," says Steve Farentinos, vice president of PML. One of the product's strengths, he says, is its ability to accept CAD data from a variety of sources (IGES, STEP, VDA, DXF, etc.) and use it almost as if the data were created in VX Vision. "For example, I can read in an IGES file from Unigraphics and, if it's 'clean', join the surfaces into a solid and continue working with it, adding bosses, parting lines, offsets, etc. Or, if the file doesn't form a closed solid, either by design or as a result of IGES translation, I can edit the surfaces, pushing or pulling nodes, extending or trimming until I get what I need," Farentinos explains.

The company also likes the product's integration of solid and advanced surface modeling, which helps it create complex shapes. For example, it used the software on a project involving reverse engineering and CAD model creation of the lower palm area of a human hand to aid in designing a hand brace for mechanical support in the low-pressure environment of a spacesuit. PML scanned a rubber casting of the astronaut's hand and read the point data into VX Vision, then created a surface automatically through a set of points in the lower palm area. This surface was then incorporated into the support brace, and the part was fabricated on PML's LOM rapid prototyping machine. "While working the design in VX Vision, we moved between surface to solid modeling many times to develop the complex shapes required," Farentinos says. "It was essential to be able to work as if we were using an advanced surface modeler, creating free-form surfaces without worrying about datum planes or constraints."

One shortcoming in the beta version, he says, is that the CAM functions aren't fully implemented. So, PML has used an older version of Varimetrix software for creating tool paths. -RM

VX Vision. A new, Windows-native CAD/CAM system. Features: Built in firm's own hybrid surface/solid kernel. Provides variational/parametric 3D modeling, assembly modeling, sketching, drafting, CAM, and translators. Close Competitors: SURFWARE's SURFCAM. Price: Mechanical Engineering pkg., incl. assembly modeling, drafting, and translators is \$4,000. Advanced Product Design adds advanced surfacing and ray-trace rendering for \$2,000. Introductory offer incl. both for \$3,000. Varimetrix Corp., 407-676-3222; [www.varimetrix.com](http://www.varimetrix.com)

Circle 154

13/3,K/6 (Item 6 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01650738 03-01728

**Building the LH models (with particular emphasis on the LHS & 300M)**  
Vasilash, Gary S

Automotive Manufacturing & Production v110n6 PP: 50-52+ Jun 1998  
ISSN: 1086-9298 JRNL CODE: PRD  
WORD COUNT: 1617

...TEXT: the 3D CAD solid model to simulate the stamping process. Analysis was performed of the **blank nesting** (e.g., how big does the **blank** need to be to get the part? What is the best **nesting** arrangement as related to scrap minimization?). The model was used for draw die development, with...

...produce the part. This went all the way through to examining the interaction between the **blank** and die surface.

Die design was performed using a parametric design tool within CATIA called VAMOS. One of the things used to facilitate rapid die development at Chrysler is a computer-based library of standard parts and steels, thereby eliminating the need to spend time on the proverbial reinvention of the wheel. The manufacturing engineers know that there are several parts of a die that are unlikely to change (think of clamps and related details), so standardization within the system leads to more expedient die design. The CATIA model of the die-which is tested within the digital world-is subsequently used to provide the input for the CNC program used to actually machine the die.

Since it is important to be assured that the stamping process as laid out will do the job, a computer model of the line-including all of the material handling-was generated and operated. This simulation permitted the process engineers to make adjustments in the digital space, which is a whole lot easier than making it in real world conditions. . . only to discover that more modifications are necessary.

Not only was first-time build facilitated through the use of computer modeling, but getting to that point was done more quickly than had been done on Chrysler's previous full-size program: total product development for the firstgeneration LH required 39 months; this program needed 31 months.

Smart. Very Smart.

The latest vehicles in the LH lineupwhich John H.O. Sloan, Vehicle Planning Executive, Large Car Operations, says fit into the "near-luxury class"are the 1999 LHS and the 300M. They are being offered with highly competitive base

13/3,K/7 (Item 7 from file: 15)  
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01633707 02-84696

**Scrap: What metal centers should never overlook**  
Hoeffler, El

Metal Center News v38n6 PP: 110-117 May 1998  
ISSN: 0539-4511 JRNL CODE: MCW  
WORD COUNT: 2340

ABSTRACT: In **scrap** handling, **metal** service center managers have found a number of ways to keep fabrication scrap losses to...

...programs, says plant manager Don Potoccek. The main strategy is to use a computer-aided **nesting** program that allows fullest use of the plate in fulfilling a work order or combining more than one work order requirement.

Because metals such as aluminum and stainless steel can undergo wide price fluctuations, Accurate Perforating Co. Inc.'s plant deliberately boasts more storage area than what would be considered economical for most service centers and fabricators. This means Accurate can store his scrap for longer periods to take advantage of markets in which prices have risen to higher levels than when the scrap was generated.

13/3,K/8 (Item 8 from file: 15)  
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01560663 02-11652

**Importance of totes recognized**

Witt, Clyde E

Material Handling Engineering v53n1 PP: 67-70 Jan 1998

ISSN: 0025-5262 JRNL CODE: MTH

WORD COUNT: 1237

...TEXT: sometimes referred to as "postal," style. Each has its advantages, depending on your application.

The **nesting** -style is often used for large, bulky items and can be designed with any **nesting** pitch you require. They are available with either hand holes or handles. Manufacturers make the...

...is at a premium. Because this type can be stacked, their use helps maximize the **space available**. These totes can be purchased with positive locking features, covers or in ESD (electrostatic dissipation)-safe material.

Also on the market are combination stackable/ nestable totes. These units feature bail bars that permit stacking, yet are tapered for nesting. No limit on material choices

A longtime favorite in plastic tote material has been corrugated plastic. The material has been around since the 1960s, and known as fluted plastic. Its major benefit is that it can create a large, durable tote that is still lightweight.

These affordable units are fabricated from all-plastic, corrugated sheets in a variety of polymers. A current popular material choice is a copolymer, a blend of poly-ethylene and polypropylene. The better totes use sonic welding in the assembly process to assure durability.

To add to the strength of a corrugated plastic tote, look for units with reinforced top rims. The reinforcement is often an aluminum channel or rod frame. Another thing to look for if you're considering corrugated plastic is the direction of the flutes. The most durable units have the flutes configured in a vertical direction on all four sides. This design keeps the bottom of the tote from splitting and gives increased stacking strength.

Another popular tote material is fiberboard, either unhardened or solid (laminated) fibre.  
(Photograph Omitted)

Captioned as: Nestable totes, especially color-coded, are ideal for small parts picking or kitting applications as shown here at Samsung Corporation. Photo courtesy of Flexcon.

Totes made of unhardened (corrugated) fiberboard are considered the least

expensive in terms of material. If your requirements call for light load handling or limited use of a tote, this might be the best choice. Corrugated totes are often used in static shelving applications and some carousel applications where high speed or multi-use is not an issue.

Solid fibre is a material that has been around for a long time. It is well known in industrial applications as

**13/3,K/9 (Item 9 from file: 15)**  
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01547814 01-98802

**Manufacturers want more tailored blanks**

Kubel, Ed

Manufacturing Engineering v119n5 PP: 38-45 Nov 1997

ISSN: 0361-0853 JRNL CODE: MFE

WORD COUNT: 2668

...TEXT: a VIL laser blank-welding system.

Automobile manufacturers wish to optimize weight reduction, dimensional control, **nesting** accuracy, scrap management, and manufacturability for their new models-at a reasonable cost. Tailor welded **blanks** (TWBs) are one way to tackle some of these challenges.

A tailored blank consists of two or more pieces of flat sheet joined together before forming to provide customized properties in the finished part. Each component uses different materials (they may differ in grade, gage, strength, and coating) and uses them exactly where they're needed. Tailored blanks eliminate the need for the reinforcement components and additional spot welding required by traditional designs. In addition, eliminating lap joints by integration of reinforcements improves resistance to corrosion.

Experts predict the market for TWBs will grow as engineers and blank producers work together to identify new parts and areas of a vehicle where tailored blanks can simplify manufacturing, reduce costs, and improve performance. Part integration and lower part weight reduces the need for manufacturing tools and subsequent production steps. These changes all result in improved productivity and lower capital investment. Part-count reduction also simplifies logistics and improves the accuracy of components and subassemblies. Current applications for TWBs include body side frames, door inner panels, motor compartment rails, center pillar inner panels, and wheelhouse/ shock-tower panels.

Why So Popular?

(Photograph Omitted)

Captioned as: This nonlinear weld on a door inner was made by a CO laser welding at a speed of 12 m/min. It used 9 kW to join 1.8and 0.9-mm-thick blanks.

ULSAB's body side outer is a one-piece design made of a 1600 x 3500-mm tailor welded blank consisting of different grades and thicknesses of sheet steel. The part saves weight, increases structural stability, and eliminates reinforcements in the body side assembly.

Design for Manufacture (DFM) is high on the priority list for most



automakers. It can reduce the number of parts and assembly time required per vehicle. Tailor welded blanks not only reduce part count but provide additional benefits, including reduced weight, improved structural integrity, improved dimensional quality, fewer dies, fewer spot welds, reduced design and development time, better material use, and lower overall manufacturing costs.

In one study, VIL (Addison, IL) projects a TWB volume of 150 million per year in the next 5-10 years. The company bases this estimate on an assumed annual worldwide vehicle output of 50-60 million vehicles that contain three to five welded blanks per vehicle. This projection takes into account only the principal automotive markets: North and South America, Western Europe, and the Pacific Rim.

Volume could become even greater if automakers adopt the Auto/Steel Partnership's ultralight steel autobody (ULSAB), which optimizes the use of tailor welded blanks in a typical four-passenger car. Benefits expected from the ULSAB demonstration project, which uses leading-edge manufacturing technologies such as tailor welded blanks, include the potential to reduce body mass structure by 25% compared with a benchmark group of current four-door, midsize vehicles. It also could yield a 65% improvement in torsional rigidity, improved bending rigidity, and a 35% improvement in vibration behavior.

The ULSAB design lends itself to high-volume manufacturing while meeting the environmental and safety-related performance goals of future-generation automobiles. In the demonstration project, engineers employ as many as four times the number of tailor welded blanks (a total of 18) used in current designs. Nearly half the mass of the ULSAB body-in-white test unit consists of tailor welded blanks. Components include rocker inner, bodyside-aperture outer, B-pillar inner, quarter-panel inner, front-rail inner/outer, rear-rail inner/outer, and shock tower. Put the same number of tailor welded blanks in 50-60 million vehicles, and tailored blank production requirements become staggering (between 900 million and one billion per year).

#### Competing Welding Techniques

Manufacturers use mash seam welding (resistance welding), laser welding, electron beam welding, and induction welding to join the components of tailored blanks. The major competitors are mash and laser welding. Volvo uses high-frequency induction welding, but it's not considered a leading contender for future systems. Electron-beam welding is not used on a production basis. While technological advances continue in each method, many believe laser welding offers greater opportunities to meet increasingly tighter standards for weld quality, manufacturing flexibility, and higher productivity.

European automakers favor mash welding. About 60% of tailored blanks produced in Europe come off lines that use that system. Soudronic Neftenbach AG (Neftenbach, Germany) has more than 6000 of its roller mash welding machines operating throughout Europe and a few in the US-producing mash-welded blanks.

In mash welding, bonding occurs by diffusion across the weld-seam boundary. It's a solid-state process (no melting occurs). The overlapped workpiece components pass through opposing copper rolls under a high load.

Mash welding lends itself to realtime process control. Weld parameters monitored on line to ensure good welds include weld force and speed, blank overlap, and weld-seam temperature.

Producing tailor welded blanks using mash welding is more cost effective than using laser welding. It costs less than laser systems (about one half to two thirds as much), produces less scrap (1% versus 3-4% for YAG and CO<sub>2</sub> lasers), and does not require precision edges on components.

Weld thickening caused by the mash process ranges from 6 to 20%, depending on the material gages joined, compared with zero weld thickening for laser welds. This parameter becomes an important consideration in the weld selection process. Part thickness can cause problems in components where the weld contacts a sealing surface, such as door inner and body side rings. Typical nonexposed, nonsealing components that can be mash welded include floor pans, rails, cross members, and deck lid inner.

Laser welding, a deep-penetration, fusion-welding process, joins materials by localized melting of

**13/3,K/10 (Item 10 from file: 15)**  
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01285997 99-35393

**Why Remmele machines to extremes**

Noaker, Paula M

Manufacturing Engineering v117n3 PP: 74-81 Sep 1996

ISSN: 0361-0853 JRNL CODE: MFE

WORD COUNT: 1587

...ABSTRACT: 100 from the same 4 ft. x 8 ft. aluminum slab, depending on customer demand. **Nesting** allows using the complete cubic capacity of the pallet, producing less **scrap** and **material** variation.

...TEXT: on customer demand. Nesting allows using the complete cubic capacity of the pallet, producing less **scrap** and **material** variation.

(Photograph Omitted)

Captioned as: This aluminum frame (several feet in length) machined at high velocity by Remmele is so light you can lift it, but it still meets stringent structural specs.

High-velocity machining also opens up new aerospace applications. Remmele can machine large monolithic unitized structures or complete aircraft frame shipsets out of aluminum billets. Designed to replace large riveted sheetmetal assemblies, the shipsets are often lighter. The aircraft frame requires less riveting and less shimming to fit components together. Assembly is simpler and faster, with less variation.

Plastics manufacturing may also lose out to high-velocity machining in some applications. Heitkamp uses the example of cockpit control panel covers, previously plastic-injectionmolded and now machined. The panels, less than a 1/2" (12.4-mm) thick, require intricate thin-wall cutouts for control buttons. With molded plastic parts, design changes are costly, it could be months before the end user saw an updated part. Remmele makes engineering changes by adjusting the NC program. Turnaround can be two weeks or less. The customer now can afford to adjust panel design to fit the needs of each pilot.

There's also strong pull for automakers to push the machining envelope and replace die-cast parts. One problem with castings is that internal defects often go undiscovered until you've already added cost to the part. They also require costly dies, or patterns, as well as tools, such as

straightening fixtures and inspection gages. Heitkamp says that high-velocity machining simplifies parts processing, shortens lead times, ensures defect-free finished parts, and facilitates Just-In-Time manufacturing and related inventory reductions.

As Remmele brings two new highvelocity Forest-Line machines on line this fall, it may also get into the business of selling aluminum scrap. The company expects metal removal rates to reach 300-350 in.3/min (49175737 cm3/min), with machines running several hours each day.

"We understand the filtration requirements," says Heitkamp. "it's just that we're not sure how to get all those chips into a system for reclamation. We will be bringing in truckloads of aluminum plate and taking out truckloads of chips because you take away 90% of the material during machining. There also are environmental issues: for instance, if we can process without coolant, reclamation is easier."

**13/3,K/11 (Item 11 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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01056223 97-05617

**A directory of software publishers**

Anonymous

Metal Center News v35n7 PP: 66-79 Jun 1995

ISSN: 0539-4511 JRNL CODE: MCW

WORD COUNT: 7086

...TEXT: and laser cutting, water jet cutting, and routing. The program saves material by automatically creating **optimized nesting layouts** of arbitrarily shaped parts on a piece of raw **material**, thus reducing **scrap** loss. NC code, including pierce points, lead-in and lead-out lines, cutter compensation offsets, and part sequencing is generated completely automatically. Heat distribution and minimum rapid movement algorithms are provided to determine the cutting sequence. The software supports punch and powder marking, chain cutting, common line cutting, and multitorch cutting. Easy to use, it can be used for planners and estimators unfamiliar with CAM programs, to estimate utilization and/or browse through remnant material inventory. The program can be interfaced to production management and DNC software, and can read geometry from any CAD system supporting DXF, IGES, or CDL.

SOFTWARE MAGIC INC.

237 Fernwood Blvd., Ste. 115 Fern Park, Fla. 32730 (407) 262-7000 Fax: (407) 262-7066

**PRODUCT DESCRIPTION:**

IntelliPost is a generalized post-processor that converts CAD/CAM data to specific machine tool commands. IntelliPost is independent of computer platforms and supports over 30 CAD/CAM systems, including CATIA, CV, PTC, and SDRC. IntelliPost supports virtually any NC/CNC machine tool in use today, including grinders, punch presses, and flamecutters.

**SOFTWARE PLUS**

P.O. Box 820067 Vicksburg, Miss. 39182-0067 (601) 634-8496 Fax: (601) 634-8498

**PRODUCT DESCRIPTION:**

Production Plus is a real-time, business-oriented program designed to increase productivity and efficiency at every phase of coil-processing. Employing shop floor work-stations and printers, Production Plus eliminates paperwork that clogs the operation. It prints labels and displays customer information on the production line to ensure that every coil is cut, weighed, and packed to exact customer specifications. A unique bar-code-label tracking system, combined with portable data terminals, gives real-time control over every phase of production (slitting, weighing, packaging, and inventory.) This assists the user in meeting and maintaining ISO 9000 specifications.

Each station's activities are driven by a set of simple computer screens containing all pertinent coil, process, and customer information. Production Plus automatically tracks rejects and rework and will bill for rework if needed. The package is client-server based and can integrate with a company's existing computer network.

SOFTWERKS INTERNATIONAL INC.

1117 E. Patten Dr. Palatine, Ill. 60067 (708) 705-9361 Fax: (708) 705-9361  
88

PRODUCT DESCRIPTION:

Contour Master is a powerful 2- to 2 1/2-axes CAM system for programming CNC machine tools. It is designed around the new style of graphic-user interfaces for ease of use and learning. The programmer's assistant is a CNC program-editor and DNC package. Prosim

**13/3,K/12 (Item 12 from file: 15)**  
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00881994 95-31386

**A set of heuristic algorithms for optimal nesting of two-dimensional irregularly shaped sheet-metal blanks**

Prasad, Yarlagadda K D V

Computers in Industry v24n1 PP: 55-70 May 1994

ISSN: 0166-3615 JRNL CODE: CII

**A set of heuristic algorithms for optimal nesting of two-dimensional irregularly shaped sheet-metal blanks**

ABSTRACT: A study addresses the development of intelligent **nesting** algorithms for **nesting** of irregularly shaped sheet-metal **blanks** with varying **blank** geometries. A set of **nesting** algorithms has been developed to find all the feasible arrangements in such a manner that 2 arbitrary **blanks** do not overlap or intersect by considering the constraints of sheet-metal stamping operations, such...

...grain orientation, and to satisfy the design requirements, such as maximizing the strength of the **blank** when bending is involved as a subsequent operation. The solutions generated by this **nesting** algorithm are compared favorably with the manual procedures adopted in industry, and also with some of the reviewed algorithms in terms of utilization ratio.

**13/3,K/13 (Item 13 from file: 15)**  
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00828374 94-77766

**Adapting for prepainted coil**

Babyak, Richard J

Appliance Manufacturer v42n2 PP: 54 Feb 1994

ISSN: 0003-679X JRNL CODE: APL

WORD COUNT: 380

...TEXT: linear shuttle and individual station lifters. The transfer consists of steel rails with urethane part **nesting** to prevent scuffing or marking of the panel. In the forming line, one side of...

...each station is fixed and the other is length adjustable for accommodation of the various **blank** sizes. The change-over is simple and easily accomplished by manual crank-screw operation.

At the exit station of the system, the formed wrapper is deposited onto a take-away conveyor in the correct attitude for the remaining final assembly.

**13/3,K/14 (Item 14 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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00689228 93-38449

**CAFM helps cities watch over costs**

Boes, Bob

American City & County v108n5 PP: 10 Apr 1993

ISSN: 0149-337X JRNL CODE: AMC

WORD COUNT: 818

...TEXT: a key issue. CAFM can be used to perform long-and short-term space forecasting, **optimize** facility **layout** plans, determine current space availability, analyze and report on space issues and perform stack (vertical) and block (single floor) space analysis. It tells the facility manager exactly how much **space** is **available**, who occupies the space, what kind of activity takes place in it, and where there are vacancies in the building. It also allows the manager to see how well the space is being used, whether less space could be used for a certain function, and whether certain areas present liability issues.

With CAFM, managers can quickly and accurately calculate space costs based on area and space type. By comparing the costs of running different departments, they can weed out ineficiencies and promote good management. This application is especially useful in governments that charge back space, requiring department heads to pay real or token money for the space they occupy.

The ongoing maintenance of as-built drawings is another critical application for most facilities managers. These drawings are the physical representation of the facility and contain information valuable to every aspect of the management effort. They typically show such information as partition, window and door locations, department boundaries, fixed and moveable equipment placement and health and safety items.

Better space usage creates dollar savings in two ways. First, it reduces the cost of new construction by making use of existing space. Second, it reduces the 'churn rate,' or rate job moving an employee from one space to another. Studies indicate that it costs almost \$2,000 in direct and

indirect costs to move one person to a new office, thus reducing these moves through better space usage saves money.

CAFM is also widely used to track furniture, fixtures and equipment, such as platforms, shelving, files, chairs, electrical raceways and connecting hardware. Maintaining detailed records of furniture component inventories has proved to be a remarkably effective way to control costs. Just avoiding the purchase of parts already in stock, a presumably simple task, is actually difficult for many organizations to do.

Automating the tracking process ensures that duplications do not occur, parts are compatible and replacements are made before parts wear out, keeping disruptions in operations to a minimum. CAFM can also be used to track wires and cables in the workplace, making it easier to move employees and their environment.

Another big issue for government facilities is compliance with the Americans with Disabilities Act which requires public buildings to be fully accessible to the handicapped. CAFM can be used to pinpoint inaccessible areas and to plan a program for achieving compliance. An intelligent database behind a good CAD system can show, for example, every bathroom door less than 3 feet wide, or a 3-D view of space from a wheelchair perspective.

Once a system is in place, it is ideal for designing space remodels. In-house personnel may be able to handle jobs that were farmed out before, and/or fewer employees may be needed for design work. Because as-built drawings are complete and easy to access, there are fewer design mistakes due to misinformation about the existing building structure, which translates into fewer changes and lower construction costs. CAFM systems vary in their complexity and capabilities. Smaller organizations may be satisfied with one or two CAD stations linked to a simple desktop database. Others may wish to link all the graphic and nongraphic information involved in facilities management.

One very ambitious automation project was recently undertaken in metropolitan Toronto. When government employees were moved from 32 buildings into one, the new downtown facility was wired with fiber optics and equipped with a state-of-the-art CAFM system. The system, which is capable of electronically connecting any graphic entity from its CAD side into a record in the Sybase database, is being used for everything from meeting room scheduling and telephone directories to cable management and electronic mail cart operation.

Bob Boes, is director of facilities management, Sigma Design, Inc., Burlington, Mass.

13/3,K/15 (Item 15 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00638163 92-53103

**Container System Saves Millions in Transport**

Anonymous

Transportation & Distribution v33n9 PP: 98, 100 Sep 1992

ISSN: 0895-8548 JRNL CODE: HLS

WORD COUNT: 832

...TEXT: and nestable containers. Nestable totes, which have drafted walls, can waste up to 20% of **available space** when shipped full. "On return

shipment, many of our containers carry reusable dunnage. That negates any benefit from **nesting** or collapsing," says McCulloch. "In addition, **nesting** and collapsing add steps to the process and waste labor."

In the shipping operation, the containers are carried on AIAG-standard 48"x45" plastic pallets, supplied by the Molded Products Division of Menasha Corporation, also based in Watertown, WI. The pallet design includes a raised outer edge to keep loads of containers from shifting. Top caps in the 48"x43" size help secure loads, so that stretch wrapping often can be replaced with inexpensive banding. This cuts packaging costs and reduces impact on local solid waste landfills.

TMM arranges its transportation program on a "milk run" configuration. Pickups from suppliers are made as often as 16 times per day. Each time a pallet load of supplies is picked up, a pallet load of empty totes is returned.

All totes are hot-stamped with the supplier's name. Within the TMM plant, each supplier's totes are assigned a specific floor space, identified with a hanging sign. As container or pallet loads of materials are carried to the production line, empty containers are returned to the storage area.

On the production floor, full containers are placed on gravity flow racks. Team members return empties to reverse-flow racks for pickup. Dunnage remains inside the containers for return shipment, saving labor for both TMM and the supplier.

#### MAXIMIZING EFFICIENCY

In the trucking operation, TMM works with three logistics partners, who own and operate 132 trailers dedicated to TMM routes. The Georgetown plant receives 123 truckloads of material per day at three loading docks in a two-shift operation.

The transportation system is designed to maintain maximum cube utilization within trailers at all times. Ultimately, TMM plans to achieve 93% overall utilization of available cube. By January 1992, just four months into production of the new Camry, the company had achieved 72% efficiency and already had reduced the amount of cube space per supplier despite increases in quantities of materials shipped.

#### QUANTIFYING SAVINGS

In calculating savings, TMM estimated the cost of the past model transportation system based on projected amounts of materials required for the new-model Camry. TMM then calculated the cost of the new model transportation stem, factoring in the increased cube utilization, truck/trailer miles driven per day, and cost per truck/trailer mile.

The resultant \$3.6 million annual savings translates to an average cost avoidance of \$18 on each of the 200,000 vehicles produced annually.

"The new containers and pallets have been the catalyst for the success of our system," says McCulloch. "TMM and its suppliers are already seeing the benefits, and are expect that to continue for years to come."

"These containers are certain to last the four-to five-year life of the new Camry model, and we expect them to be around a lot longer than that. With a standard container line and standard sizes, we foresee an easy transition to the next new Camry model. The dunnage may have to change, but we are quite confident most of the containers will carry over."

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00578596 91-52943

**Jurassic National Park**

Anonymous

Economist v321n7730 PP: 108, 110 Oct 26, 1991

ISSN: 0013-0613 JRNL CODE: ECT

WORD COUNT: 835

...TEXT: by commercial diggers--archaeopteryx (the earliest known bird) in 1861 and, more recently, a fossil **nesting** -ground that gave Jack Homer, an academic palaeontologist, evidence to support his belief that some...

...This week he described to the Society of Vertebrate Palaeontologists the huge, nearly complete tyrannosaurus **skeleton** he found in South Dakota last year. That **skeleton** will stay in South Dakota--as the centrepiece of a museum Mr Larson is building.

The furore over commercial-versus-academic digging misses the point, Mr Larson says. Far more fossils are lost to erosion and other natural phenomena each year than to improper digging. The more collectors--professional, amateur or scholarly--the better, to ensure that future intact allosaurus skeletons are not washed away in a summer thunderstorm.

Anyway, commercial collectors are hardly lining their pockets with gold-plated camarasaurus thigh bones. Mr Larson recently contracted to install two duck-billed dinosaur skeletons in Japanese museums. Digging a skeleton from the bone quarry which Mr Larson's firm owns, cleaning it and assembling it takes 15,000 man-hours. At the going rate, that comes out at around \$23 an hour. A living wage, but not likely to incite hordes of pick-wielding fortune-seekers to tear up the Wyoming badlands.

**13/3,K/17 (Item 1 from file: 810)**  
DIALOG(R)File 810:Business Wire  
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0876951 BW1005

**CREDENCE SYSTEMS: Credence Introduces New Configuration of High Pin Count ValStar Series Test System; VS 2000e Extends High-Volume Production Capabilities**

July 09, 1998

Byline: Business Editors/High Tech Writers

...less than three square meters. This new configuration also delivers greater flexibility for test cell **layout** and **optimization** of **available space**.

These factors are critical for high-volume facilities requiring utmost efficiency and factory productivity.

The VS 2000e matches all of the capabilities of the VS 2000 for testing of complex logic, embedded memory and embedded analog prevalent in today's most sophisticated high pin count VLSI chips. Specific applications include microprocessors, controllers, advanced chip sets, ASICs, and FPGAs.



"Credence is taking a leadership role toward factory integration and production efficiency, while anticipating the manufacturing needs of today and tomorrow," said Gary Smith, Credence's director of marketing. "The VS 2000e is today's technology solution for dedicated, high-volume manufacturing."

Credence's use of low-power stabilized CMOS technology packs the full 1024 I/O pins and data rates of 200 MHz into less than three square meters and consumes less than 16 kW of power, delivering the most cost effective test system in the industry. Combining 3 Gigabit Scan memory and a unique high speed Iddq measurement feature, the VS 2000e enables multisite testing of up to 16 devices in parallel to maximize production throughput of the most complex devices. The VS 2000e uniquely satisfies three essential requirements for today's advanced consumer products: performance, cost and time-to-market.

Credence Systems Corp. is a leader in the manufacture of automatic test equipment (ATE) for the worldwide semiconductor industry. Credence offers a wide range of products with test capabilities for digital, mixed-signal, and memory semiconductors. Utilizing its patented CMOS technologies, Credence products are designed to meet the strict time-to-market and cost of ownership requirements of its customers.

Headquartered in Fremont, the company maintains advanced production and design facilities in Beaverton, Ore. Credence, an ISO 9001 certified manufacturer, is listed on the Nasdaq National Market under the symbol CMOS. More information is available at [www.credence.com](http://www.credence.com).

Note to Editors: Credence, Credence Systems, ValStar Series, VS 2000e, and VS 2000 are trademarks of Credence Systems Corp. Other trademarks that may be mentioned in this release are the intellectual property of their respective owners.

Photographs of the VS 2000e are available by contacting Bruce Bedortha at The Loomis Group.

CONTACT: Credence Systems Corp.  
Connie Graybeal, 510/623-4774  
[connie.graybeal@credence.com](mailto:connie.graybeal@credence.com)  
or  
The Loomis Group Inc.  
Bruce Bedortha, 415/882-9494  
[bruce@loomisgroup.com](mailto:bruce@loomisgroup.com)

KEYWORD: CALIFORNIA OREGON

INDUSTRY KEYWORD: COMPUTERS/ELECTRONICS COMED TRADESHOW

Today's News On The Net - Business Wire's full file on the Internet  
with Hyperlinks to your home page.  
URL: <http://www.businesswire.com>

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S2	1850	(UTILIZ? OR OPTIMIZ?) (1N) LAYOUT? OR NESTING
S3	26	S2 AND S1
S4	24	RD (unique items)
S5	19	S4 NOT PY>2001
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DIALOG(R)File 613:PR Newswire  
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00631606 20010823DCTH004 (USE FORMAT 7 FOR FULLTEXT)  
**Paleontologist Jack Horner Discovers What Is Believed to Be Three Oldest T-Rex Ever And Most Complete Juvenile Tyrannosaurus Skeleton**  
PR Newswire  
Thursday, August 23, 2001 10:02 EDT  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 995

**... What Is Believed to Be Three Oldest T-Rex Ever And Most Complete Juvenile Tyrannosaurus Skeleton**

...and a number of vertebrae. Several bones and a tooth of the disarticulated G-Rex **skeleton**, the third oldest found in the same area, was named after Greg Wilson, another Horner...

...actually be new species of Tyrannosaur that no one has ever seen before."

Juvenile Daspletosaurus **Skeleton**  
Horner's previously unannounced juvenile Daspletosaurus was originally found in Montana near Glacier National Park. The 90% complete **skeleton** -- the first ever found of a juvenile Tyrannosaur -- has since been airlifted to the Museum...

...is also the dinosaur we believe T-rex evolved from. With further study of this **skeleton**, I'm hoping to learn more about Tyrannosaur behavior."

The discoveries of eight T-rex...

...with arms; the first Einiosaurus Procurvicornis; Maiasura Peeblesorum, which provided the first evidence of colonial **nesting** and parental care in dinosaurs; and Troodon eggs with the first dinosaur embryos

found in the world.

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SOURCE The Discovery Channel  
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Web site: <http://www.discovery.com>

5/3,K/2 (Item 2 from file: 613)  
DIALOG(R)File 613:PR Newswire  
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00328240 20000507HSSU008 (USE FORMAT 7 FOR FULLTEXT)  
**Newsweek Cover: 'Dinosaur! Disney's \$200 Million Gamble'**  
PR Newswire

Sunday, May 7, 2000 13:36 EDT

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 2,386

...Disney's

\$200 Million Gamble" (on newsstands Monday, May 8). The studio, built from the **skeleton** of an old Lockheed aircraft plant, will be used for future films

for the whole Walt Disney Co. Until now, only Disney partner Pixar, with its

two "Toy Story" films and "A Bug's Life," has been able to compete with Disney's traditional animation hits. Disney distributed these movies, but splits the take 50-50 with its northern California partners.

In the 82-minute "Dinosaur," which was 12 years in the making, a young Iguanodon named Aladar is separated from his parents and raised, Tarzan style,

by a family of friendly lemurs. Footage for the background was shot throughout

the world for real settings to better emphasize the dinos size and "virtual"

reality. But in this computer-manipulated film, nothing is as it seems - the

sky may be from one part of the world, the mountains from another and the river that runs through it entirely generated by computer.

(Article attached. Read Newsweek's news releases at <http://www.prnewswire.com/micro/NEWS>).

#### Building A Better Dinosaur

The earth begins to tremble. The jungle begins to sway. Through the rustling trees emerges the terrifying head of a carnosaur, the gargantuan two-legged carnivore all other dinosaurs fear. Bounding from massive leg to leg, it crosses the plain, four tons of murderous intent descending on its lunch. With surprising swiftness, it overtakes a pachyrhinosaur, pulls the writhing beast down and plunges its razor-sharp teeth into its victim. Gotcha!

This primal moment comes near the beginning of Disney's splendiferous "Dinosaur." The hearts of millions of little boys and girls are going to race

at this bone-crunching spectacle. They won't be the only ones in the grip of

an adrenaline rush: their parents will not have forgotten the awe these prehistoric beasts inspire. This PG-rated movie - a breakthrough in the merging of computer-generated images and real backgrounds - is the first film

to come out of Disney's new digital studio. It taps into an obsession that has

been growing since 1841, when the British scientist Sir Richard Owen named these creatures Dinosauria, Greek for "terrible lizard."

"Dinosaur," which has been in the works on and off for 12 years and which

the studio says cost \$127.5 million, is more than just Disney's latest summer

movie. (The total price tag runs to \$200 million if the cost of the digital studio built to make the movie is included.) With "Dinosaur," the House That

Mickey Built aims to show the world, and its competitors, that it can be as

to set their digital dinos in real settings, to better emphasize their size and reality. At this point they went to CEO Michael Eisner and announced that, though they didn't know how much it would cost or how long it would take, they could make the movie. Movie moguls don't usually like such uncertainty, but Eisner gave them the go-ahead: it was a leap of faith. "To business-school students, I would hasten to say that this is not the way you should be doing business," Eisner says. "However, when it is the core of your company - the culture and the heritage which stands for the name Disney - the investment in equipment, space and talent must be made."

At its peak, "Dinosaur" employed close to 900 people. But CG animation was such a new field that "the world didn't have 50 A-list senior CG animators," says coproducer Baker Bloodworth. They had to hire traditional animators and spend a year and a half training them. Much of the software had to be invented from scratch. Technology, to some extent, dictated the movie's story, which kept getting rewritten according to what the animators could or could not pull off. Once it was decided, early on, that the dinos would talk (at Eisner's insistence), certain liberties had to be taken with scientific fact: iguanodons, for example, had to acquire lips. "We

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00134901 19990702MNF011 (USE FORMAT 7 FOR FULLTEXT)  
**U.S. Fish & Wildlife Service: The Bald Eagle Is Back! -- President Clinton Announces Proposal to Remove our National Symbol From Endangered Species List**  
PR Newswire  
Friday, July 2, 1999 12:43 EDT  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 1,458

...America adopted the bird as its national symbol in 1782, as many as 100,000 **nesting** bald eagles lived in the continental United States, excluding Alaska. By 1963, only 417 **nesting** pairs were found in the lower 48.

Today, due to recovery efforts by the Interior...

...corporations and thousands of individual Americans, this number has risen to an estimated 5,748 **nesting** pairs. As a result, biologists believe it may no longer require the special protection of...

...some seacoast areas. These areas, however, must have an adequate food base, perching areas,

and **nesting** sites in order to support the species. In winter, bald eagles often congregate at specific...

...and other major prey species. Many eagles were killed by humans. Coupled with loss of **nesting** habitat, these factors reduced bald eagle populations until the 1940s.

In 1940, Congress passed the...

...The pesticide caused the shells of the bird's eggs to thin and resulted in **nesting** failures. Loss of **nesting** habitat also contributed to the population decline.

In 1967, the Secretary of the Interior listed bald eagles south of the 40th parallel as endangered under the Endangered Species Preservation Act of 1966. In 1972, the Environmental Protection Agency took the historic and, at the time, controversial step of banning the use of DDT in the United States. This was the first step on the road to recovery for the bald eagle.

Following enactment of the Endangered Species Act of 1973, the U.S. Fish and Wildlife Service listed the species as endangered throughout the lower 48 states, except in Michigan, Minnesota, Oregon, Washington, and Wisconsin where it was designated as threatened. The species was never listed as threatened or endangered in Alaska or Canada because populations there have always been healthy.

The listing of the species as endangered provided the springboard for the U.S. Fish and Wildlife Service and its partners to accelerate the pace of recovery through captive breeding programs, reintroduction efforts, law enforcement and the protection of nest sites during the breeding season.

"It is fitting that we close out this century with such a great tribute to America's commitment to conserving our natural heritage," Babbitt said. "Generations to come will not just see bald eagles on our coins, stamps and flag poles; they will be able to look up in the sky and see our national symbol flying overhead."

Even if the U.S. Fish and Wildlife Service removes the bald eagle from the list of threatened and endangered species, the bird would still be protected by the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The MBTA prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests except when specifically authorized by the Department of the Interior. The Bald and Golden Eagle Protection Act, the successor to the Bald Eagle Protection Act, prohibits, except under certain specified conditions, the taking, possession,

transportation, export or import, barter, or offer to sell, purchase or barter  
a bald or golden eagle, alive or dead, or any part, nest, or eagle egg.

If the bald eagle is delisted, the Service also would work with state wildlife agencies to monitor the status of the species for a minimum of five years, as required by the Endangered Species Act. At ...at  
<http://www.fws.gov/r3pao>

SOURCE U.S. Fish & Wildlife Service

EDITORS' NOTE: Press **materials** are **available** on the Service's website  
at <http://www.fws.gov>. B-roll and still photographs of bald eagles are available. A satellite feed of the b-roll footage will run from 12:30 - 12:45 eastern time on Friday, July 2 on C-Band, Galaxy 6, Transponder 9, Downlink Frequency 3882 Horizontal, Audio Frequency 6.2-6.8. Interviews with Service employees and other leaders involved in the recovery of the bald eagle are also available.  
CONTACT: Cindy Hoffman, 202-208-3008, Georgia Parham, 812-334-4261 x203, [parham--georgia@fws.gov](mailto:parham--georgia@fws.gov), or Dan Sobieck, 612-713-5403, [sobieck--dan@fws.gov](mailto:sobieck--dan@fws.gov), all of U.S. Fish & Wildlife Service  
Web site: <http://www.fws.gov/r3pao>

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1427099 SFTU073  
**Crews Preparing to Tow the Bow Section of the New Carissa to Sea**

DATE: February 23, 1999 13:55 EST WORD COUNT: 376

... to monitor the shifting location of the bow section and it's proximity to the **remaining** stern **section** of the New Carissa. As the bow continues to be pushed south along the beach...

... location of the population and whether the threatened birds are migrating for the beginning of **nesting** season.

Teams will look for oil today north of Horsfall Beach and north of the Umpqua River.

SOURCE Joint Information Center

**5/3,K/5 (Item 2 from file: 813)**  
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1329993 SFTU010  
**U.S. Fish and Wildlife Service: The Peregrine Falcon is Back!**

DATE: August 25, 1998 10:00 EDT WORD COUNT: 1,003

... reaching speeds of 200 miles an hour as it dives after its prey. While

those **nesting** in the lower latitudes travel shorter distances, if at all, peregrines **nesting** in Alaska and Canada are well known for their long spring and fall migratory flights...

... percent below historical levels. By 1975, the population reached an all time low of 324 **nesting** pairs in North America.

The banning of DDT made the recovery of the peregrine falcon...

... took place in urban areas after researchers discovered that the falcons have successfully adapted to **nesting** on skyscrapers where they can hunt pigeons and starlings.

State wildlife agencies also played a fundamental role in the recovery process by protecting **nesting** habitat, carrying out releases, and monitoring populations within their borders.

"The recovery of the peregrine has been a model of partnership in the conservation and recovery of an endangered species," Clark said. "Our agency could never have reached this day by ourselves. We needed the help of many organizations and individuals to bring about the recovery."

The Service's proposal to delist the peregrine falcon will be published in the Federal Register on August 26, 1998. The public may comment on the proposal in writing until November 23, 1998. Comments should be sent to: Field Supervisor, U.S. Fish and Wildlife Service, Ventura Fish and Wildlife Office, 2493 Portola Road, Suite B, Ventura, California 93003.

SOURCE U.S. Fish and Wildlife Service

...are available. Interviews with Service employees and other pioneers in the falconry community are also **available**. Press **materials** are **available** on the Service's website at [www.fws.gov](http://www.fws.gov).

CONTACT: Patricia Foulk, 916-979-2710; or Phil Carroll, 503-231-6121, both of the U.S. Fish and Wildlife Service

Web site: <http://www.fws.gov>

5/3,K/6 (Item 3 from file: 813)  
DIALOG(R)File 813:PR Newswire  
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1329909

NETU012

**The Peregrine Falcon Is Back! Says U.S. Fish and Wildlife**

DATE: August 25, 1998 08:49 EDT WORD COUNT: 1,001

... reaching speeds of 200 miles an hour as it dives after its prey. While those **nesting** in the lower latitudes, travel shorter distances, if at all, peregrines **nesting** in Alaska and Canada are well known for their long spring and fall migratory flights...

... percent below historical levels. By 1975, the population reached an all time low of 324 **nesting** pairs in North America.

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CONTACT: Terri Edwards, 413-253-8327 or Cindy Hoffman, 202-208-3008 or Mitch Snow, 202-208-5634, all of U.S. Fish and Wildlife

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1139949 MNTH007  
**Teknion Ability Mobile Furniture and Flexible Transit Panel System Offer  
Fluid Solutions for the Alternative Office**

DATE: August 14, 1997 10:19 EDT WORD COUNT: 895

... is made easy with wheels, and each piece is height adjustable allowing vertical movement for **nesting** and surface overlapping to meet individual ergonomic and workspace requirements. Accessories can be added to...

... focused computer tasks which require easy position changes throughout the day.

Seven different Active Storage **pieces** are **available** in heights varying from 23 inches to 42 inches. Bins and lockable drawers for storage are also available, as is the Mobile Task Board. Ability also includes table rails, monitor shields, table screens and shelves that allow a user to customize work tables and storage pieces for various applications.

#### Transit Panel System

Transit is a flexible, fully integrated panel system that complements the architectural interiors of today's workplace. When combined with Ability tables and storage, Transit offers unique solutions to "alternative office" strategies.

Transit affirms Teknion's central design philosophy -- designing open-ended, adaptable products that solve problems, and meet future challenges. As a panel system, Transit solves problems without sacrificing form or function. It eliminates trade-offs by providing a fusion of function and aesthetics.

Transit may be assembled without the need for conventional intersections, so 90 degree and 180 degree intersections may be accomplished wherever they are needed. The Bridge is a lightweight perpendicular panel that allows for easy space division changes to the workstation with minimal reconfiguration. Panel heights may be increased or decreased through the use of add-on modules. Worksurfaces and overhead storage units can be mounted anywhere within the workstation footprint. Cabling and electrical capacities exceed that of conventional systems.

Transit meets the needs of the organization and the individual with little or no additional inventory. Transit is also not governed by module confinements, providing complete planning freedom.

#### About Teknion

With headquarters in Marlton, N.J., Teknion is an international designer and manufacturer of office systems furniture and related products that unify function and substance with style, soul and unparalleled performance. Visit Teknion on the World Wide Web at <http://www.tekus.com>.

Ability and Amigos are trademarks of Teknion.

Teknion and Transit are registered trademarks of Teknion.

SOURCE Teknion

5/3,K/8 (Item 5 from file: 813)  
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1097468 DETU012  
**UltraLight Steel Auto Body Program on Schedule - Validation Phase Underway,  
Reports the American Iron and Steel Institute**

DATE: May 13, 1997 11:30 EDT WORD COUNT: 1,660

...piece rear floor with spare tire tub. Due to assembly considerations and width limitations of **available materials**, the part has been redesigned as a two-piece component. The material used in the...

...with the spare tire and tools already preassembled as a module.

#### Body Side Outer

An **optimized blank layout** is the highlight of the Phase II body side outer. The layout employs a fully laser welded tailored **blank** with different gauges and grades of steels, designed to maximize mass savings and structural performance...

... of the structure. The exposed rear quarter panel is included in the one-piece tailored **blank** body side outer.

Tailor welded **blanks**, the technology used to manufacture the ULSAB body side outer, offer many benefits in addition to mass reduction. With

tailor welded **blanks** , fewer parts, dies and spot welds are needed, steel can be more efficiently utilized, and...

...assembly steps.

Nearly half of the ULSAB mass consists of parts made from tailor welded **blanks** , compared to current vehicles, which use a much smaller percentage.

Other design highlights of Phase II of the ULSAB will be detailed at the conclusion of the program in Spring 1998. These highlights will include the front rails, package tray assembly, dash panel insert, floorpan and roof.

#### Static and Crash Analysis

As the Consortium progresses from design to construction of demonstration bodies-in-white, engineering analysis of the ULSAB provides insight into the accomplishments of the project, and a framework to better understand the processes and results of this initiative.

Computer aided engineering (CAE) is key to the Phase II design process,

**5/3,K/9 (Item 6 from file: 813)**

DIALOG(R)File 813:PR Newswire

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DCF015

#### **USDA Agency Helps Solve Problems Between Humans and Wildlife in Nevada**

DATE: April 11, 1997

10:21 EDT

WORD COUNT: 525

... surface conditions and potential disease contamination. Geese may also become aggressive because of a nearby **nesting** site and attack people. These attacks can be dangerous to people, particularly when they involve small children or older adults. The annual Canada geese relocation project, helps to alleviate various problems within the urban areas, and specifically it reduces potential hazards at the metropolitan airport.

-- Educational activities: Nevada ADC employees are involved in several educational activities. These employees provide the public with technical assistance information concerning the control of damage or nuisance situations caused by wild animals. In addition, ADC personnel attend teacher workshops and provide information about the program, while offering teacher assistance regarding wildlife and damage situations caused by wildlife.

-- Cattle feedlot projects: Nevada ADC employees have also conducted several projects at cattle feedlots to control damage losses to feed and fodder caused by large populations of starlings and pigeons. These birds consume and/or contaminate large amounts of cattle feed with their droppings. When determined necessary, baiting projects were conducted using a state and federally registered toxicant to effectively alleviate continued damage.

For more information on the ADC program in Nevada, please call Monte Chandler at 702-784-5081.

SOURCE U.S. Department of Agriculture, ADC

...Send an e-mail message to

majordomo info.aphis.usda.gov and leave the subject **blank** . In the message,  
type subscribe press releases

CONTACT: Robert Beach, 702-784-5081, or Stuart Donald, 303-969-6560,  
both of the U.S. Department of Agriculture, ADC

**5/3,K/10 (Item 7 from file: 813)**  
DIALOG(R)File 813:PR Newswire  
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1080732 DCF012  
**USDA Agency Helps Solve Problems Between Humans and Wildlife**

DATE: April 11, 1997 09:51 EDT WORD COUNT: 714

... by developing plans to reduce damage while maintaining wildlife resources. Two local steel companies have **nesting** gull colonies on their mill sites. ADC guided these companies to set aside protected **nesting** areas and implement management methods only in critical operational areas. The results have been positive. The protected sites have allowed the companies to maintain a positive environmental role and to operate safely.

-- Assistance to homeowners: ADC assists hundreds of homeowners each year with wildlife damage problems by providing a free telephone consultation service and information leaflets on a variety of wildlife related problems. Woodpeckers damaging wood constructed homes, bats in the attic, and moles digging in the lawn are just a few of the more common wildlife damage problems Hoosiers reported to ADC.

-- Assistance at airports: ADC works with the Federal Aviation Administration, U.S. Military, and local Indiana airports to minimize wildlife hazards to airport facilities, aircraft, and public health and safety. ADC provides assessment services, U.S. Fish and Wildlife permit assistance, wildlife hazard management recommendations and plans, as well as training services for airport personnel. ADC has participated on community development committees and evaluated landfill proposals to determine potential wildlife related safety hazard impacts to airport safety.

-- Wildlife management education: ADC works with Purdue University to provide information on wildlife damage management issues to students in the University's School of Agriculture and Aviation Technology. ADC regularly speaks to wildlife management, airport management, vertebrate pest management, and livestock production classes. This allows ADC to provide the most current and accurate information on the program and related issues to a broad spectrum of students and future professionals.

-- Canada geese: ADC provides information and geese removal services for property owners and managers. Nuisance Canada geese are a big problem for apartment complexes, golf courses, country clubs, industrial sites, malls, and lake homeowner associations. Adult geese molt their flight feathers during June and can be humanely captured using a corral trap. ADC provides relief from grazing damage, droppings, water contamination, and human health and safety problems caused by geese.

-- Managing deer damage: ADC provides information on legal control alternatives for property owners suffering deer damage. ADC has also worked with Purdue University on testing immuno-contraceptives as a potential management tool for overpopulations of deer in confined areas. Several

industrial cooperators have enough habitat surrounding their facilities to maintain small deer herds. Left unmanaged, the deer quickly overpopulate and exceed the carrying capacity of the habitat. This results in starvation of the deer and/or intensive crop damage to agricultural neighbors. Methods such as hunting may not be possible on some sites due to security requirements, liability issues, and employee opposition. The knowledge gained from this project has helped to define the limitations and appropriate uses of this method as part of an overall deer management plan.

For more information on the ADC program in Indiana, please call Judy Loven at 317-494-6229.

SOURCE U.S. Department of Agriculture, ADC

...Send an e-mail message to  
majordomo info.aphis.usda.gov and leave the subject **blank** . In the  
message,  
type subscribe press releases

CONTACT: Judy Loven, 317-494-6229, or Ed Curlett, 301-734-3256, both of  
the U.S. Department of Agriculture, ADC

5/3,K/11 (Item 8 from file: 813)  
DIALOG(R)File 813:PR Newswire  
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1080697 DCF007  
**USDA Agency Helps Solve Problems Between Humans and Wildlife in  
Massachusetts**

DATE: April 11, 1997 09:01 EDT WORD COUNT: 733

... t mix: An increasing number of resident Canada geese are using airports for feeding and **nesting** . In 1996, ADC received reports from four airports in southern New England where aircrafts collided with geese. The average cost of these incidents was \$8,000. ADC helps airport managers make the airport environment unattractive to geese and make flying safer for the public.

-- Gulls contaminate drinking water: New England has always prided itself on having the cleanest water in the country without requiring costly filtration and treatment facilities. In recent years, populations of gulls have increased and moved inland to roost and nest on town drinking water reservoirs. Droppings from these birds increase bacteria levels, ultimately costing the public to treat the water. ADC has been working with state and municipal governments to keep these birds from contaminating the drinking water.

-- Gulls impact clam harvest: Towns north of Boston are some of the best clamming areas in the country. Recently, shellfish wardens have noticed a decline in the availability of clams. The decline has been attributed to gulls feeding on seed clams. It is estimated that the shell fishing industry loses up to \$4 million per year in each town to gulls. ADC is developing methods to keep gulls from reducing the number of clams that can be harvested.

-- Shellfish farms lose crops to eiders: Shellfish farming is a growing industry in Massachusetts, but producers there have encountered a profit eater. Common eiders, a sea duck, flocking by the thousands can wipe out an entire crop of mussels in one day. ADC is working with shell fishermen to develop new strategies to prevent such high losses.

-- Dairy cows die due to bird droppings: In Connecticut, several dairy cows have died because of contaminated food and water from hundreds of starlings that congregate at dairy farms in the winter. ADC has conducted workshops to instruct dairy farmers in methods to keep birds from contaminating livestock facilities.

-- Woodpeckers damage houses: In the fall and spring, woodpeckers become territorial and may use houses to let others know where they live. This can cause hundreds and even thousand of dollars' worth of damage in a short time. ADC biologists help homeowners find effective methods to keep woodpeckers from damaging houses and other personal property.

For more information on the ADC program in Massachusetts, please call Laura Henze at 413-253-2403.

SOURCE U.S. Department of Agriculture, ADC

...Send an e-mail message to majordomo info.aphis.usda.gov and leave the subject **blank** . In the message, type subscribe press releases.

CONTACT: Laura Henze, 413-253-2403 or Ed Curlett, 301-734-3256, both of the U.S. Department of Agriculture, ADC

5/3,K/12 (Item 9 from file: 813)  
DIALOG(R)File 813:PR Newswire  
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0716688 NY076  
**INFORMATION REQUEST FAXLINE**

DATE: June 20, 1994 18:00 EDT WORD COUNT: 283

...Great River Road -- An exciting adventure past Native American sites, an opportunity to watch eagles **nesting** , a visit to the Robert Wadlow statue in Alton (the tallest recorded man) and Pere...

...now and we'll work with you on developing story lines and "filling in the **blanks** ."

CONTACT: Lisa Rose, 312-280-2058, Edelman Public Relations

5/3,K/13 (Item 10 from file: 813)  
DIALOG(R)File 813:PR Newswire  
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0466408 AT020  
**EPA CONTINUES ENFORCEMENT TO PROTECT HIGH QUALITY WETLANDS IN STATESBORO, GA.**

DATE: April 15, 1992 16:55 EDT WORD COUNT: 766

...of the houses, and it is anticipated that the removal of the houses and the **remaining** fill **material** should be completed by July 1992.

The wetlands impacted by Ray Hendley are part of...

...by providing habitat for fish and wildlife which may be used for foraging, roosting, breeding, **nesting**, rearing young, and other activities which promote balanced populations of recreationally and commercially important species. EPA considers the enforcement of laws protecting this and similar wetland areas to be a top priority.

**5/3,K/14 (Item 1 from file: 634)**

DIALOG(R)File 634:San Jose Mercury

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06745006

**EMBRYONIC SKELETON OF DINOSAUR EXCAVATED**

San Jose Mercury News (SJ) - Tuesday, September 1, 1992

By: Mercury News Wire Services

Edition: Morning Final Section: Science & Medicine Page: 4C

Word Count: 425

**EMBRYONIC SKELETON OF DINOSAUR EXCAVATED**

**TEXT:**

Paleontologists have discovered the partial **skeleton** of a 150-million-year-old dinosaur embryo that when intact was less than nine...

...Chure said the finding might lead paleontologists to redefine and enlarge their maps of dinosaur **nesting** and breeding sites.

CORN ATTRACTS WASPS TO STALK ITS PREDATORS

**5/3,K/15 (Item 2 from file: 634)**

DIALOG(R)File 634:San Jose Mercury

(c) 2006 San Jose Mercury News. All rts. reserv.

06263201

**AIRPORT ENDS SAFETY HAZARD WITH BIRDSHOT**

San Jose Mercury News (SJ) - Thursday, September 19, 1991

By: ANDREW MAYKUTH, Knight-Ridder News Service

Edition: Morning Final Section: Front Page: 2A

Word Count: 331

...falcons that Chevalier introduced seemed to prefer tastier birds.

The cannons that fire ear-splitting **blanks** and the trucks that blare gull distress calls from loudspeakers proved to be minor annoyances...

...least temporary results. The number of collisions between birds and aircraft during the laughing gull **nesting** season dropped from 155 last year to 53 this year. The **nesting** season lasts from May through September.

Gull-shooting defended

Richard Dolbeer, a USDA biologist from Sandusky, Ohio who led the hit squad said the 80-day shoot was justified by the threat that the birds posed to aircraft and passengers.

**5/3,K/16 (Item 3 from file: 634)**  
DIALOG(R)File 634:San Jose Mercury  
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04574796

**CATS OVERRUN GILROY HOUSE RETIRED TEACHER LIVED IN 1 ROOM OF FILTHY HOME**

SAN JOSE MERCURY NEWS (SJ) - Wednesday, September 21, 1988

By: JACK FOLEY, Mercury News Staff Writer

Edition: Morning Final Section: Local Page: 1B

Word Count: 780

... wall cat feces, urine-soaked rugs, and bedding and furniture soiled and torn apart by **nesting** and clawing cats.

All the kitchen counters, the sink, the pool table and the beds...

...avail.

She said she peered into Merrill's den last year and saw a cat **skeleton** on the pool table.

Another neighbor, Al Burleson, described Merrill as a quiet man who kept to himself and used to do his gardening while whistling Brahms.

At Gilroy City Hall, Director of Public Safety Art Gillespie said there's no record of complaints about the Merrill house.

City 'can't do much'

'The homeowner has the power of the Constitution behind him,' he said. 'It has to be as bad as this or worse before we can legally get involved. If you want to live like that, we can't do much about it' until it threatens health or safety.

City officials say the action Tuesday was prompted by a complaint to animal control officials.

After no one answered the door when police arrived at Merrill's house on Monday, they returned Tuesday with agents of the other departments.

Police officer Steve Morrow said he knew the situation was bad Monday when he peered in the kitchen window and saw feces piled on the counters.

Merrill was given three citations, all misdemeanors or infractions, and was told to be in court Nov. 1.

He was cited for having too many animals, for not caring for his animals properly and for having too much trash and garbage about the premises.

'I feel sorry for him'

'My overwhelming feeling is I feel sorry for him,' said Morrow, who, after threatening to break down Merrill's door if he didn't open up, later gently advised him to seek the help of friends.

Merrill, who neighbors say used to keep his yard and house in pristine condition, with koi ponds and immaculately trimmed bonsai trees, seemed bewildered by the attention.

The Korean War veteran, who said he picked up a love of the Orient when



he served in the armed forces, said he has been unable to keep up with work around the house or his 20 cats since suffering a heart attack in June 1987. The illness forced him to retire after 25 years of teaching history in Gilroy.

He said he is single, and has only one friend in town and no close family.

'He was a very respected teacher and had some very popular elective classes,' said former Gilroy High School Principal Rich Imler.

Merrill said he tried to clean up several times, but things got out of control after the cats kept having litter after litter.

He also said he began keeping the cats indoors because he was afraid they'd be hurt outside, and he buys cat food by the carton when it's on sale.

As for the cats, he said he is very fond of them.

'I didn't mistreat them.'

5/3,K/17 (Item 1 from file: 624)  
DIALOG(R)File 624:McGraw-Hill Publications  
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00963834

**ON THE TRAIL OF LEWIS AND CLARK**

BY JOHN E. PEARSON

EDITED BY SANDRA DALLAS

Business Week, Number 3597, Pg 18E6

September 28, 1998

JOURNAL CODE: BW

SECTION HEADING: Letter From The Missouri River ISSN: 0007-7135

WORD COUNT: 1,416

**TEXT:**

... Wild & Scenic River, a 149-mile stretch that Congress protected in 1976 as the longest **remaining section** of free-flowing Missouri. We pass canoeists floating past the dramatic White Cliffs, described by Lewis as 'scenes of visionary enchantment,' and massive bluffs called the Missouri Breaks. Wildlife abounds: We see everything from mule deer and coyotes to eagles and pelicans.

Below the Breaks, the canoes disappear, and from there to Sioux City, Iowa, long-distance travel is discouraged by the dams, built by the U.S. Army Corps of Engineers from the 1930s to the 1960s. Boaters on the lakes are mostly sport fishermen who launch their craft at scattered ramps. But in North Dakota, we travel for hours without sighting a boat on Lake Sakakawea's clear green waters or people along its miles of sandy beaches. There's still plenty of solitude on the Missouri.

That's partly because the river's floods and shifting channels, up to now, have kept homebuilders at a wary distance. But upriver from Sioux City, a splurge of homebuilding is creating an affluent suburb, Dakota Dunes, on the banks of the Missouri. There, the Corps has strait-jacketed the river with levees, rip-rap, and rock jetties called wing dikes. Still, the Corps recommends that owners of the new homes, some of them mansions, leave their basements unfinished. 'They are building on what was the old

river channel," says David C. Wooster, acting chief of the Corps' Missouri River control section in Omaha.

SQUEEZE PLAY. Such prosperity hasn't spread to the Indian reservations that occupy long stretches of the Missouri's banks. At Fort Thompson, on South Dakota's Crow Creek Sioux Reservation, Duane Grey Cloud, a lean fishing and hunting guide, gives us a lift around the Big Bend Dam. Jobs on the reservation are scarce and vulnerable to shifting tribal politics. So Grey Cloud, 42, a Vietnam veteran, has just opened a bait and tackle shop on the highway into town. "I'm trying to do something on my own, so I won't be dependent on the Tribal Council," he says. But on the Standing Rock Sioux Reservation, where Sitting Bull is buried, the Tribal Council is starting to funnel casino profits into other businesses such as a boat ramp and parking for off-road vehicles of customers who arrive at its Prairie Nights casino by ...by limiting water releases in early summer. In recent years, high water wiped out many **nesting** areas, mainly bare sandbars on the Missouri and Nebraska's Niobrara River. But this year, the birds are faring better. Near Washburn, N.D., three summer interns with green visor caps, doing a survey of terns and plovers for the Corps, come ashore in a flat-bottomed skiff. "Conditions are great," says team leader Jay D. Hettinger, 22, who is studying park management at South Dakota State University at Brookings. "There are birds everywhere." Sure enough, 400 miles downstream, where the Niobrara dumps its load of silt into the Missouri, least terns dip and skim gracefully as we pass a sandbar that the Corps has posted with "restricted" signs.

ENDGAME. As the Lewis and Clark bicentennial approaches, there will be more long-distance travel on the Missouri. On Aug. 29, the Discovery Expedition of St. Charles, a nonprofit group, launched two 40-foot replicas of Lewis' and Clark's pirogues, or dugouts, in Yankton, S.D. With crews of 10 to 18, they expect to hit St. Charles, Mo., across the Missouri from St. Louis, on Oct. 13. "From 2003 to 2006, the endgame is to retrace the entire discovery expedition," says spokesman Kevin E. Kipp.

Our trip ends at a ramp in St. Charles. Bob's son Ted, a Boeing Co. engineer, meets us with a trailer. For proof that we have made it, he drives us to St. Louis' riverfront and takes our pictures at the Gateway Arch. Back in New York, an apartment-house neighbor, when told of the trip, asks: "Did it rejuvenate your soul?" Aside from the lifetime bragging rights, yes--surely it must have done us some good.

5/3,K/18 (Item 2 from file: 624)

DIALOG(R)File 624:McGraw-Hill Publications

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0043820

**Manufacturers' Literature**

Engineering News-Record, Vol. 219, No. 12, Pg 88

September 17, 1987

JOURNAL CODE: ENR

SECTION HEADING: Manufacturers' Literature ISSN: 0013-807X

WORD COUNT: 6,852

**TEXT:**

...is designed for corrosive environments in chemical, pulp and paper mills and is maintenance free. **Available** in both **metal** and 100% shut-off bidirectional resilient seating. Packing gland is a leakproof elastomer and packing...

... that automatically checks the design against thousands of national life safety codes; and a space **layout optimization** feature that automatically arranges floor space according to priorities assigned to it. GRAPHIC HORIZONS 240...

... that automatically checks the design against thousands of national life safety codes; and a space **layout optimization** feature that automatically arranges floor space according to priorities assigned to it. GRAPHIC HORIZONS 240

Financial management system/Software is designed for architects, engineers and designers and covers general ledger, accounts receivable and accounts payable, project management, time billing and job costing. The software is described in a 44-page booklet. SEMAPHORE INC. 241

Graphics processors/Company's color graphics processor series provides total graphics solutions for the users of AutoCAD, Autoshade and Pioneer solids modeling.

5/3,K/19 (Item 3 from file: 624)  
DIALOG(R)File 624:McGraw-Hill Publications  
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0039639

**FOR FARMERS, TOBACCO ROAD LEADS NOWHERE**

Dean Foust in Selma

Business Week, Number 3009, Pg 48

July 27, 1987

JOURNAL CODE: BW

SECTION HEADING: Cover Story ISSN: 0007-7135

WORD COUNT: 732

TEXT:

... was always common, but nowadays some growers are taking bigger risks. Buyers complain of farmers " **nesting** ," or padding, the bottom of tobacco bundles with inferior leaf--and even bottles, **scrap metal** , bricks, or tire slivers.

Although many remain hopeful that their fortunes will improve, some farmers confess to feeling guilty about growing tobacco. The barrage of antismoking reports on TV, says Montgomery, "makes you feel like an outlaw." Then again, there's Davey H. Dickens, a tobacco farmer in nearby Fuquay-Varina. Although he has kicked his pack-a-day habit, he refuses to quit growing his 45-acre crop. Says Dickens, 29, who started driving his father's tractor at the age of 5: "I've got a whole life invested in this."

Set	Items	Description
S1	26279	(SCRAP OR UNUSED OR USABLE OR REMAINING OR AVAILABLE OR LEFT() OVER OR UNCUT OR UNPUNCH? OR UN() (CUT OR PUNCH? OR SHEAR? - )) (2N) (METAL OR MATERIAL? OR SECTION? OR PIECE?) OR BLANK? ? - OR SKELETON
S2	1850	(UTILIZ? OR OPTIMIZ?) (1N) LAYOUT? OR NESTING
S3	26	S2 AND S1
S4	24	RD (unique items)
S5	19	S4 NOT PY>2001
S6	2647112	MATCH??? OR (MAK??? OR MADE) () (AVAILABLE OR ACCESSIBLE) OR OFFER??? OR PROVID???
S7	567742	FABRICATOR? OR MANUFACTURER? OR METALWORK? OR PARTIES
S8	241	S6(S) S1(S) S7
S9	10421	METALWORK? OR (SHEET OR FABRICAT???) (N) METAL
S10	17	S8 AND S9
S11	15	RD (unique items)
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11/3,K/1 (Item 1 from file: 613)

DIALOG(R)File 613:PR Newswire

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0001971794 IFAAECC50AD4111DA9F9A8596EF0DD6D2 (USE FORMAT 7 FOR FULLTEXT)  
**Republic Backs Al-jon in Strategic Partnership Colorado Private Equity Firm  
Contributes Capital and Operational Expertise**  
PR Newswire  
Monday, March 6, 2006 T18:33:00Z  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 532

TEXT:

...management in Al-jon, Inc., a leading manufacturer of equipment for the solid waste and **scrap metal** industries. As Al-jon's chosen partner, Republic is **providing** capital as well as operational and financial expertise to support the existing management team in its pursuit of strategic growth initiatives.

"We are excited about the opportunity that we have created with the Al-jon team," stated Bill Haan, president of Republic's Private Equity Group. "The undeniable strength of Al-jon's management team, workforce, and its high quality products and service levels, combined with Republic's breadth of industry and functional expertise, make this an excellent partnership for growth and success. We are excited and optimistic for the future of this relationship."

INDUSTRY NAMES: **METAL FABRICATION** ; METALS; MATERIALS AND MINERALS

11/3,K/2 (Item 2 from file: 613)

DIALOG(R)File 613:PR Newswire

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0001924814 I8110DCA08C4C11DAB32184D524DD60BC (USE FORMAT 7 FOR FULLTEXT)  
**PROFNET WIRE: BUSINESS & TECHNOLOGY: 8-K Reporting Requirements**  
PR Newswire  
Monday, January 23, 2006 T19:35:00Z  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 884

...753-6222 (1/23/06)

4. MANUFACTURING: TESTING MACHINING COMMODITIES TO MAXIMIZE PROFITABILITY. MARK GREELEY, **metalworking** fluids project engineer at TECHSOLVE: "Of the primary cost factors in machining a commodity product, very few are under the control of the actual **manufacturer**. The size, shape, material and tolerances of the finished good are determined by the customer, as is the demand for the product. Within these constraints, **manufacturers** often look to purchasing to increase profits, trying to get equivalent tools and materials at...

...profitability at points that are constrained by demand and product specifications. Conducting machining tests on **available** tools and **materials** provides **manufacturers** with the information they need to maximize profits and lessen downtime. By balancing productivity and tool life, businesses can maximize profitability at any level of demand." News Contact: Barbara Flick,

mailto:bflick@jypublicrelations.com bflick@jypublicrelations.com Phone:  
+1-513-388-4700, ext. 3024 (1/23/06)

5. MARKETING: JUNK-FOOD MARKETING HAS BECOME A CRITICAL HEALTH ISSUE.  
NANCIE HERBOLD, chair of the nutrition department at the SIMMONS COLLEGE  
SCHOOL FOR HEALTH STUDIES in Boston, wrote her 1970s dissertation on using  
cartoon characters to sell junk food to children. Since then, the growing  
rates of childhood obesity and diabetes have made junk-food marketing a  
critical health issue: "It's like deja vu. Younger children cannot  
differentiate a program character from one in an ad. Recently, lawsuits  
have been threatened against Kellogg and Nickelodeon for using characters  
such as SpongeBob SquarePants to market food to children." News Contact:  
Stacy Wong,

mailto:stacy.wong@simmons.edu stacy.wong@simmons.edu Phone: +1-617-521-2393  
(1/23/06)

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11/3,K/3 (Item 3 from file: 613)

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0001267242 IE73C3F20D1E911D89021BE5E3B270356 (USE FORMAT 7 FOR FULLTEXT)

**U.S. Copper Industry Battles Corruption and Subsidies in China**

PR Newswire

Friday, July 9, 2004 T19:31:00Z

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 2,153

...INDUSTRY NAMES: METAL **FABRICATION** ; MATERIALS AND MINERALS; STEEL  
INDUSTRY

11/3,K/4 (Item 4 from file: 613)

DIALOG(R)File 613:PR Newswire

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01058964 20031023TO115 (USE FORMAT 7 FOR FULLTEXT)

**Dofasco Reports \$29.9 Million Third Quarter net Income**

PR Newswire

Thursday, October 23, 2003 09:04 EDT

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 5,894

TEXT:

...of QCM. The

April 2003 change in government delayed the process beyond original  
expectations. All **parties** continue to work steadfastly to close the  
agreement.

Mr. Pether said, "Among many other accomplishments...

...Galvanizing)  
in Windsor, Ontario. As a result, by mid 2004 we will be able to **provide**  
an  
additional 200,000 tons (over 2002 levels) of high value-added galvanized  
steel products...  
...started on a new pickle line that will be coupled with an  
existing cold mill, **providing** Dofasco customers with world-class, cold  
roll  
substrate. A major upgrade to a second coupled pickle line cold mill begins  
in  
December. This will **provide** Dofasco customers with additional light  
gauge,  
high quality steel for the automotive, construction and packaging...

...these challenges and capitalize on the  
opportunities."

Dofasco is a leading North American steel solutions **provider**. Product  
lines include hot rolled, cold rolled, galvanized, Extragal(TM),  
Galvalume(TM)  
and tinplate flat rolled steels, as well as tubular products, laser welded  
**blanks** and Zyplex(TM), a proprietary laminate. Dofasco's wide range of  
steel  
products is sold to customers in the automotive, construction, energy,  
manufacturing, pipe and tube, appliance, packaging and steel distribution  
industries.

This News Release contains forward-looking information with respect to  
Dofasco's operations and future financial results. Actual results may  
differ from expected results for a variety of reasons including the  
factors discussed in the Management's Discussion and Analysis section  
of  
Dofasco's 2002 Annual Report and the quarterly Report to Shareholders  
for  
the periods ended March 31, 2003, June 30, 2003, and September 30,  
2003.

...INDUSTRY NAMES: **METAL FABRICATION** ; METALS; STEEL INDUSTRY;  
UTILITIES

**11/3,K/5 (Item 5 from file: 613)**  
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00931407 20030207TO021 (USE FORMAT 7 FOR FULLTEXT)  
**Dofasco Posts Excellent 2002 Results**  
PR Newswire  
Friday, February 7, 2003 11:30 EST  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 7,899

TEXT:

...Principle was reached between QCM, Dofasco,  
CAEMI of Brazil, (QCM's co-owner) and third **parties** to restructure QCM in  
a  
way that will reduce the ownership positions of Dofasco and...

...meeting customers' demands and securing growth. With

capital investment, internal innovation and strategic alliances that **provide** access to the newest technology, Dofasco's most valuable resource - our people - are equipped to...

...company's sustainable growth in the future."

Dofasco is a leading North American steel solutions **provider**. Product lines include hot rolled, cold rolled, galvanized, Extragal(TM), Galvalume(TM) and tinplate flat rolled steels, as well as tubular products, laser welded **blanks** and Zyplex(TM), a proprietary laminate. Dofasco's wide range of steel products is sold to customers in the automotive, construction, energy,

...INDUSTRY NAMES: **METAL FABRICATION** ; METALS; STEEL INDUSTRY

11/3,K/6 (Item 6 from file: 613)  
DIALOG(R)File 613:PR Newswire  
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00919341 20030115DEW012 (USE FORMAT 7 FOR FULLTEXT)  
**POM Group & TRUMPF Group Enter Strategic Supply Agreement**  
PR Newswire  
Wednesday, January 15, 2003 11:02 EST  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 446

TEXT:

...incorporate POM's patented Direct Metal Deposition (DMD(R)) technology. DMD is a laser-based **metal fabrication** process that produces fully dense metal products "from the ground up" using metallic powder. TRUMPF is a leading worldwide **manufacturer** of lasers, laser processing systems and machine tools for the sheet **metalworking** industry. A significant advance in **metalworking**, the DMD technology **provides** the capability to fabricate tools with superior material properties and unique bi-metallic structures that are not **available** using traditional **metal fabrication** technologies. POM has commercialized the DMD process, **providing** increases in productivity and extending the functional life of industrial tooling for the plastic injection...

...and technology license to the worldwide industrial market in third quarter of 2003. TRUMPF will **provide** worldwide installation and service support for the CNC and laser equipment, while POM will **provide** DMD application development, process technology and technical support.

POM and TRUMPF have agreed to a "mutually exclusive" supplier agreement whereby TRUMPF will be the exclusive supplier of CO2 or YAG-based DMD machines to POM and POM will be the exclusive supplier of direct metal deposition process technologies to TRUMPF.



This cooperation with TRUMPF instantaneously transforms POM into a global supplier of direct metal processing technology. "TRUMPF brings a degree of engineering, product quality and customer commitment that is unmatched in the industry," commented Dr. Jyoti Mazumder, CEO of The POM Group, Inc.

SOURCE The POM Group, Inc.

CONTACT: Brian Ziskie, Vice President - Marketing of The POM Group, Inc., +1-248-409-7900, email: bziskie@pomgroup.com

Web site: <http://www.pomgroup.com>

...INDUSTRY NAMES: **METAL FABRICATION** ; METALS; TOOLS

**11/3,K/7 (Item 7 from file: 613)**

DIALOG(R)File 613:PR Newswire

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00910965 20021219TO208 (USE FORMAT 7 FOR FULLTEXT)

**Agreement in Principle For Restructuring of Quebec Cartier Mining**

PR Newswire

Thursday, December 19, 2002 12:47 EST

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 500

TEXT:

...Cartier Mining Company ("QCM") of Montreal, Quebec, have reached an Agreement in Principle with third **parties** to undertake a significant restructuring of QCM. This restructuring is designed to fund the further...

...significantly as a result of the contribution of new capital to QCM by the other **parties** to the Agreement. Dofasco and CAEMI, with the other **parties** to this Agreement, will support future mine development. Dofasco's support will not be greater ...

...mine, railroad, pellet facility and port operations.

Dofasco is a leading North American steel solutions **provider**. Product lines include hot rolled, cold rolled, galvanized, Extragal(TM), Galvalume(TM) and tinplate flat rolled steels, as well as tubular products, laser welded **blanks** and Zyplex(TM), a proprietary laminate. Dofasco's wide range of steel products is sold to customers in the automotive, construction, energy, manufacturing, pipe and tube, appliance, packaging and steel distribution industries.

This News Release may contain forward-looking information with respect to Dofasco's operations and future financial results. Actual results may differ from expected results for a variety of reasons including the factors discussed in the Management's Discussion and Analysis section of Dofasco's 2001 Annual

Report and Quarterly Reports to Shareholders for the periods ended March 31, June 30 and September 30, 2002.

...INDUSTRY NAMES: **METAL FABRICATION** ; METALS; MINING; STEEL INDUSTRY

**11/3,K/8 (Item 8 from file: 613)**  
DIALOG(R)File 613:PR Newswire  
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00846908 20021101DEF016 (USE FORMAT 7 FOR FULLTEXT)  
**FKM-USA and Industry Scope Rollout Agency Agreement**  
PR Newswire  
Friday, November 1, 2002 10:19 EST  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 375

TEXT:

...reputation and is well connected to automakers. So the choice was easy."

FKM is a **fabricator** of industrial roll products, many of which make use of Freudenberg and Bayer-AG materials. FKM rolls are configured for diverse automotive applications, such as **providing** support for tailor welded **blank** systems, as wash rolls within **sheet metal blank** washers, and as tensioning rolls in steel mills and toll processors. FKM's product line...

...partner," said  
Industry Scope president Michael Bleau.

Industry Scope, LLC, founded in March of 2002, **provides** business knowledge, strategic business consultation and training, marketing communications and direct sales representation. To learn...

...Industry  
Scope visit [www.industry-scope.com](http://www.industry-scope.com) .

FKM-Walzentechnik, founded in 1967, is the leading **manufacturer** and supplier of non-woven roll materials to the European automotive industry. To learn more about FKM, Freudenberg and Bayer-AG products visit [www.fkm-walzen.de](http://www.fkm-walzen.de) .

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<http://tbutton.prnewswire.com/prn/11690X66616136>

**11/3,K/9 (Item 9 from file: 613)**  
DIALOG(R)File 613:PR Newswire  
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00788912 20020628DAF018 (USE FORMAT 7 FOR FULLTEXT)  
**CMC Acquires Scrap Metal Interest of Sampson Steel**  
PR Newswire  
Friday, June 28, 2002 12:43 EDT  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 307

## TEXT:

...today that it has completed the acquisition of substantially all the transportation assets of the **scrap metal** processing operation of Sampson Steel Corp. in Beaumont, Texas. The purchase was effective today.  
Sampson...

...base and has established a reputation for excellent service. CMC will continue the tradition of **providing** excellent customer service."

This acquisition will be combined with CMC's existing scrap processing facility...

...S. The recycled metals are sold to steel mills, specialty steel producers, high temperature alloy **manufacturers**, foundries, aluminum refineries and mills, copper and brass mills and other consumers.

Commercial Metals Company and subsidiaries manufacture, recycle and market steel and metal products, related materials and services through a network of over 130 locations including 4 steel minimills, 27 steel fabrication plants, a castellated and cellular beam fabricating plant, 5 steel joist plants, 4 steel fence post manufacturing plants, 2 heat treating plants, a railcar rebuilding facility, 24 concrete-related product warehouses, an industrial products supply company, a railroad salvage company, a copper tube mill, 43 metal recycling facilities and 16 marketing and trading offices in the United States and in strategic overseas markets.

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<http://tbutton.prnewswire.com/prn/11690X68645115>

...INDUSTRY NAMES: **METAL FABRICATION**; METALS; MOBILE COMMUNICATIONS; RADIO COMMUNICATION; RECYCLING; STEEL INDUSTRY; TELECOMMUNICATIONS; WASTE MANAGEMENT

11/3,K/10 (Item 10 from file: 613)

DIALOG(R)File 613:PR Newswire

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00753849 20020424TO267 (USE FORMAT 7 FOR FULLTEXT)

**Dofasco Earns \$13.7 Million First Quarter Income**

PR Newswire

Wednesday, April 24, 2002 10:00 EDT

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 3,434

## TEXT:

...seeing positive trends from our key strategic subsidiaries and joint ventures. Powerlasers, our wholly owned **manufacturer** of laser welded **blanks**, has expanded twice in the last six months. As well, operations at Dofasco de Mexico...

...that we will see continued earnings growth."

Dofasco is a leading North American steel solutions **provider**. Product lines include hot rolled, cold rolled, galvanized, Extragal(TM), Galvalume(TM) and tinplate flat rolled steels, as well as tubular products and laser welded

**blanks**. Dofasco's wide range of steel products is sold to customers in the automotive, construction, energy, manufacturing, pipe and tube, appliance, packaging and steel distribution industries.

This News Release contains forward-looking information with respect to Dofasco's operations and future financial results. Actual results may differ from expected results for a variety of reasons including the factors discussed in the Management's Discussion and Analysis section of Dofasco's 2001 Annual Report.

...INDUSTRY NAMES: **METAL FABRICATION**; METALS; STEEL INDUSTRY; STOCKS AND SHARES

11/3,K/11 (Item 11 from file: 613)  
DIALOG(R)File 613:PR Newswire  
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00714894 20020207CLTH019 (USE FORMAT 7 FOR FULLTEXT)  
**Dietrich Metal Framing Partnership with Centrex Homes**  
PR Newswire  
Thursday, February 7, 2002 11:55 EST  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 582

TEXT:

...builders in this country, and we're very pleased to be working with them to **offer** the Dietrich TradeReady Floor System," said Ed Ponko, president of Dietrich Metal Framing. "Our floor system allows Centex to better control its material costs and **offer** a tremendous enhancement to its customers in Ohio."

The Dietrich TradeReady Floor System **provides** many advantages. This metal floor system is more consistent and durable than wood and **offers** homeowners a quieter, more even, solid floor.

"We're very pleased with the product and...  
...NYSE: CTX), a Fortune 500 company.

Founded in 1959, Dietrich Metal Framing is the largest **manufacturer** of steel framing products in the United States. Dietrich's 1500 employees in 20 facilities...

...as automotive aftermarket stampings, pressure cylinders, metal framing, metal ceiling grid systems and laser welded **blanks**.

The company employs 7,500 people and operates 57 facilities in 10 countries.

Founded in 1955, the company operates under a long-standing corporate philosophy rooted in the golden rule, with earning money for its

shareholders  
as the first corporate goal. The philosophy, an unwavering commitment to  
the  
customer, and one of the strongest employee/employer partnerships in  
American  
industry, serve as the company's foundation.

#### Safe Harbor Statement

The company wishes to take advantage of the Safe Harbor provisions  
included in the Private Securities Litigation Reform Act of 1995 ("the  
Act").  
Statements by the company, which are not historical information constitute  
"forward looking statements" within the meaning of the Act. All forward-  
looking statements are subject to risks and uncertainties which could cause  
actual results to differ from those projected. Factors that could cause  
actual results to differ materially include risks described from time to  
time  
in the company's filings with the Securities and Exchange Commission.

...INDUSTRY NAMES: **METAL FABRICATION** ; METALS; PROPERTY

**11/3,K/12 (Item 12 from file: 613)**  
DIALOG(R)File 613:PR Newswire  
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00711523 20020201CLF013 (USE FORMAT 7 FOR FULLTEXT)  
**Aegis Metal Framing Begins Operations**  
PR Newswire  
Friday, February 1, 2002 12:02 EST  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 648

#### TEXT:

...and the software, engineering and marketing  
functions of MiTek's Steel Framing Systems division, Aegis **offers**  
building  
component producers an unparalleled array of products and services. "We are  
absolutely focused on...

...the demand for factory-built, light gauge  
components," states Thomas Valvo, President of Aegis. "Aegis **offers** a  
unique  
business model by **providing** our **fabricator** customers with a complete  
suite of  
whole-structure design, estimating, and management software, a full line of  
metal framing products, and integrated professional engineering services.  
Architects, contractors and component **fabricators** specializing in  
commercial  
and institutional construction will be the primary beneficiaries of this  
entirely new kind of company."

According to Ed Ponko, President of Dietrich, "Aegis **offers** a new  
vision  
for our industry. Pre-fabricated, engineered products marketed with strong  
software and...

...and  
the contractors they supply are going to be delighted with what Aegis has  
to

**offer ."**

Worthington Industries is a leading diversified metal processing company with annual sales of approximately \$2...

...as automotive aftermarket stampings, pressure cylinders, metal framing, metal ceiling grid systems and laser welded blanks .

The company currently employs 7,500 people and operates 57 facilities in 10 countries.

Founded in 1955, the company operates under a long-standing corporate philosophy rooted in the golden rule, with earning money for its shareholders as the first corporate goal. This philosophy, an unwavering commitment to the customer, and one of the strongest employee/employer partnerships in American industry serve as the company's foundation.

#### Safe Harbor Statement

The company wishes to take advantage of the Safe Harbor provisions included in the Private Securities Litigation Reform Act of 1995 ("the Act").

Statements by the company relating to future sales and operating results; projected capacity levels; anticipated capital expenditures; market and product development; and other non-historical information constitute "forward-looking statements" within the meaning of the Act. Because they are based on beliefs, estimates and assumptions, forward-looking statements are inherently subject to risks and uncertainties that could cause actual results to differ materially from those projected. Any number of factors could affect actual results, including, without limitation, product demand, changes in product mix and market acceptance of products; changes in pricing or availability of raw materials, particularly steel; effects of plant closures and the consolidation of operations; capacity restraints and efficiencies; conditions in major product markets; delays in construction or equipment supply; financial difficulties of customers, suppliers and others with whom we do business; the effect of national, regional and worldwide economic conditions; risks associated with doing business internationally, including economical, political and social instability, and foreign currency exposure; acts of war and terrorist activities; the ability to improve processes and business practices to keep pace with the economic, competitive and technological environment; the business environment and impact of governmental regulations, both in the United States and abroad; and other risks described from time to time in filings with the SEC.

...INDUSTRY NAMES: **METAL FABRICATION** ; METALS; PRODUCTIVITY; STEEL  
INDUSTRY

11/3,K/13 (Item 13 from file: 613)

DIALOG(R)File 613:PR Newswire  
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00703431 20020117NYTH058 (USE FORMAT 7 FOR FULLTEXT)  
**Microlubrication Providing Efficiencies in Metalworking**  
PR Newswire  
Thursday, January 17, 2002 11:32 EST  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 550

**Microlubrication Providing Efficiencies in Metalworking**

TEXT:

...that is taking hold in Europe.  
And according to a recent study by Kline & Company, **metalworking** fluid formulators, machine tool **manufacturers**, machinists, and others are looking to this process to substantially reduce the amount of fluid required to cut or form a shape from a **blank** piece of metal.

"Microlubrication is a developing trend in Europe that is clearly growing in...

...Company, a leading international business consulting firm based in Little Falls, NJ. "Its use is **providing** very significant efficiencies in several end-use markets throughout the **metalworking** industry."

In its simplest terms, microlubrication is a process that reduces the amount of **metalworking** fluid used in metal machining processes. Finely dispersed and directed aerosol sprays of specially formulated fluids are applied directly onto the work piece, **providing** just enough lubrication to prevent damage to the machine tool and the metal piece being machined.

Some of the benefits of microlubrication include no chemical waste, reduced consumption of **metalworking** fluids, and sales-based rather than fee-based disposal of the metal chips that result...

...operations.

Because microlubrication is total-loss lubrication, the ingredients in microlubrication fluids differ from conventional **metalworking** fluids, and accordingly, so do their price. Synthetic oils, tall oil alcohols, and esters

are among the base fluids being used to formulate this new generation of **metalworking** fluids, as compared to less expensive mineral oils used in conventional **metalworking** fluids. In the long run, however, the cost of using these fluids is lower than that for conventional **metalworking** fluids.

"End

users are recognizing the ultimate cost savings and are accepting the higher initial...

...to address the performance requirements of microlubrication.

Microlubrication and other technologies impacting the future of **metalworking** fluid requirements and consumption are analyzed in BUSINESS OPPORTUNITIES IN **METALWORKING** FLUIDS WESTERN EUROPE 2000, Kline & Company's new study of the European **metalworking** fluids market.

Another study from Kline that is currently in progress, GLOBAL BUSINESS

OPPORTUNITIES IN **METALWORKING** FLUIDS, 2001-2003, **provides** a global perspective of the issues and trends impacting the **metalworking** fluid industry. This report combines individual regional market analyses into a comprehensive three-year service, focusing on products, services, applications, and trends in the three leading consuming regions of the world: North America, the Asia-Pacific region, and Europe.

Established in 1959, Kline & Company is a leading international business research and management consulting firm serving the industrial chemicals, lubricants, and petroleum industries. For more information on Kline's capabilities or on either of the studies mentioned above, contact Lynn Gillette, Sales & Marketing Manager, at Kline & Company, Inc., 150 Clove Road, Little Falls, NJ 07424; at (973) 435-3448; or via e-mail at [lynn--gillette@klinegroup.com](mailto:lynn--gillette@klinegroup.com).

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11/3,K/14 (Item 14 from file: 613)  
DIALOG(R)File 613:PR Newswire  
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00648201 20010927CLTH003 (USE FORMAT 7 FOR FULLTEXT)  
**Dietrich, MiTek Announce Joint Venture**  
PR Newswire  
Thursday, September 27, 2001 09:39 EDT  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 677

TEXT:

...Inc.  
(NYSE: WOR) announced today that its subsidiary, Dietrich Metal Framing, the world's largest **manufacturer** of light gauge metal framing products and accessories, and MiTek Industries, Inc., the world's leading **provider** of products, software, and engineering services for the pre-fabricated building components industry, have signed...

...and product development efforts of MiTek. The result will be a new company focused on **providing** light gauge all metal component **manufacturers** and contractors with the widest array of products and services, including Dietrich's unique Trade...

...Ultra-Span(R) light gauge steel truss system.

The core of the venture's technical **offering** will be the MiTek 20/20 suite of light gauge steel framed roof and floor...

...a comprehensive solution for years," said Ed Ponko, President of Dietrich Metal Framing. "Aegis will **provide** a tremendous leap in value in all aspects



of the construction process, from specification all...

...key systems."

Gene Toombs, CEO of MiTek, explained the advantages the new joint venture will **provide** its customers. "The winners in today's construction market, be it commercial or residential, are those suppliers who display the speed and agility to **provide** safe, accurate, cost-effective solutions for building designers, contractors and owners. By combining the manufacturing and marketing strength of Dietrich with the software development, engineering systems and **fabricator** support functions of MiTek, Aegis Metal Framing will be unique in the light gauge metal framing industry. The light gauge metal component **fabricators** and installers will be the real winners in this new business model."

Both **parties** anticipate the joint venture will be finalized in October.

Worthington Industries is a leading diversified...

...as automotive aftermarket stampings, pressure cylinders, metal framing, metal ceiling grid systems and laser welded **blanks**.

The company employs 7,500 people and operates 59 facilities in 11 countries.

MiTek, based in Chesterfield, MO is a subsidiary of Warren Buffett's Berkshire Hathaway Inc.

#### Safe Harbor Statement

The Company wishes to take advantage of the Safe Harbor provisions included in the Private Securities Litigation Reform Act of 1995 ("the Act").

Statements by the Company relating to future revenues, earnings and growth, stock appreciation, plant capabilities and other statements which are not historical information constitute "forward looking statements" within the meaning of the Act. All forward-looking statements are subject to risks and

uncertainties which could cause actual results to differ from those projected.

Factors that could cause actual results to differ materially include, but are

not limited to, the following: general economic conditions; conditions in the

Company's major markets; competitive factors and pricing pressures; product demand and changes in product mix; changes in pricing or availability of raw

material, particularly steel; delays in construction or equipment supply; and

other risks described from time to time in the Company's filings with the Securities and Exchange Commission.

...INDUSTRY NAMES: **METAL FABRICATION** ; METALS

11/3,K/15 (Item 15 from file: 613)

DIALOG(R)File 613:PR Newswire

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00327811 20000505TO002 (USE FORMAT 7 FOR FULLTEXT)

**Dofasco to Acquire Powerlasers**

PR Newswire

Friday, May 5, 2000 10:30 EDT

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 781

...technology, a single blank can contain different types and thickness of steel.

Laser welded automotive **blank** technology allows for the placement of various steel grades and thicknesses within a specific part...

...and removing weight that does not contribute to performance. There are several advantages for automobile **manufacturers** in using laser welded **blanks**. First, laser welded **blanks** are lighter and **provide** superior structural rigidity than components manufactured with traditional methods. Second, the reduced weight results in...  
...Third, there are cost savings through reduced scrap, increased structural efficiency and part consolidation (one **blank** can replace several stamped parts).

The market for laser welded automotive blanks and related components is growing rapidly. The current North American market is approximately 30 million per year. Industry forecasts anticipate this will triple by 2005, and could rise to 150 million per year with the subsequent introduction of new automobile platforms. Powerlasers currently possesses about one-sixth of the North American market for laser welded automotive blanks and related components.

"Powerlasers gets Dofasco into the exciting growth market of laser welded automotive blanks and related components with market share, customer relationships, and the technological and market expertise required to capitalize on the opportunity presented to us," said Mayberry. "Powerlasers has secured strong market share but still has significant growth opportunity in a growth market."

Powerlasers employs 139 people in three operations: manufacturing facilities in Concord, Ontario and Pioneer, Ohio, as well as an Advanced Technology Centre in Kitchener, Ontario dedicated to the research, development and manufacture of leading-edge laser welding technology for commercial applications. The centre possesses research hardware including lasers and robotics, as well as a metallurgical and mechanical testing lab. Among the employees at the centre are seven PhDs (six of them laser physicists) and 10 engineers. The centre investigates a number of potential applications for laser welding, from steel automotive components to medical appliances involving a range of materials including steel, aluminum and plastics.

"Laser welded automotive blanks and related components are an exciting and significant technological shift in auto manufacturing," said Mayberry. "Powerlasers is a startup success story, developed through innovation. Therefore, it's an ideal fit with Dofasco's focus on value creation through innovation. Dofasco is ideally positioned to maximize the value of the asset and to realize the synergies of Powerlasers' strong research capability."

Powerlasers is also strategically located. More than 85 per cent of the market for laser welded automotive blanks and related components is located in Ohio, Michigan and Ontario. Powerlasers has one manufacturing facility in Concord, Ontario, and one in Pioneer, Ohio (on the Michigan border).

Powerlasers is a full-service supplier of laser-welded blanks and related components with manufacturing facilities in Concord, Ontario and Pioneer, Ohio. The Kitchener, Ontario based Advanced Technology Centre (ATC), a division of Powerlasers, is a world-leader in the research, development and manufacture of laser processing solutions.

Dofasco is a leading North American steel producer. Product lines include hot rolled, cold rolled, galvanized and tinplate flat rolled steels, as well as tubular products. Dofasco's wide range of steel products is sold to customers in the automotive, construction, steel distribution, packaging, pipe and tube, manufacturing and appliance industries.

This News Release contains forward-looking information with respect to Dofasco's operations and future financial results. Actual results may differ from expected results for a variety of reasons including the factors discussed in the Company's Management Discussion and Analysis section of its 1999 Annual Report..

...INDUSTRY NAMES: **METAL FABRICATION** ; STEEL INDUSTRY; TECHNOLOGY DEVELOPMENT; METALS

Set	Items	Description
S1	56604	(SCRAP OR UNUSED OR USABLE OR REMAINING OR LEFT()OVER OR U- NCUT OR UNPUNCH? OR UN()(CUT OR PUNCH? OR SHEAR?))(2N)(METAL - OR MATERIAL? OR BLANK? ? OR SECTION? OR PIECE?) OR SKELETON
S2	1155253	MATCH??? OR (MAK??? OR MADE)() (AVAILABLE OR ACCESSIBLE)
S3	4038228	FABRICATOR? OR MANUFACTURER? OR METALWORK?
S4	2	S1(7N)S2(10N)S3
S5	2	RD (unique items)
File	9:Business & Industry(R)	Jul/1994-2006/Mar 29 (c) 2006 The Gale Group
File	275:Gale Group Computer DB(TM)	1983-2006/Mar 29 (c) 2006 The Gale Group
File	621:Gale Group New Prod. Annou. (R)	1985-2006/Mar 29 (c) 2006 The Gale Group
File	636:Gale Group Newsletter DB(TM)	1987-2006/Mar 29 (c) 2006 The Gale Group
File	16:Gale Group PROMT(R)	1990-2006/Mar 30 (c) 2006 The Gale Group
File	160:Gale Group PROMT(R)	1972-1989 (c) 1999 The Gale Group
File	148:Gale Group Trade & Industry DB	1976-2006/Mar 29 (c) 2006 The Gale Group

**5/3,K/1 (Item 1 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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10563324 SUPPLIER NUMBER: 21233093 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Agencies work together for environmental protection, economic development.**

**(Arkansas Economic Development Commission; Arkansas Dept of Pollution Control and Ecology)**

Arkansas Business, v15, n41, pS11(1)

Oct 12, 1998

ISSN: 1053-6582

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 1562

LINE COUNT: 00134

... by-products since 1985. And AEDC's ScrapMatch program provides a data base in which **manufacturers** are **matched** with potential markets for specific waste and **scrap materials**.

AEDC is redesigning its Arkansas Community of Excellence (ACE) program with an emphasis on quality of life and cooperation among state and local agencies. The ACE manual stresses the need for communities to form a Solid Waste Management Task Force, which includes members of ADPC&E, to develop a comprehensive, coordinated approach to this environmental issue. The manual also recommends that communities adopt the Arkansas Energy Code, which requires builders to adhere to minimum energy requirements in new and remodeled commercial and residential construction.

The Arkansas Energy Office, a section of AEDC, points out the economic advantage of reducing energy expenditures: for businesses, their savings can decrease operating costs, increase productivity and improve market position. For homeowners, the savings can result in greater purchasing power. And by meeting the requirements for an Energy Efficient Mortgage, homeowners can qualify for a more expensive house.

In Energy Office-sponsored Motor Challenge workshops, AEDC staff and Arkansas companies help companies make sure their electric motor systems are as efficient as possible. By participating in the workshops, companies can receive assistance from the U.S. Department of

**5/3,K/2 (Item 2 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2006 The Gale Group. All rts. reserv.

07577778 SUPPLIER NUMBER: 16433302 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Waste exchange attracts industries. (Special Supplement)**

Patterson, Kym

Arkansas Business, v11, n43, pS6(2)

Oct 24, 1994

ISSN: 1053-6582

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 1171

LINE COUNT: 00095

... material. The two databases are crossed and matches are made between industrial scrap and waste **material** and markets for that material. A personal letter is generated by the system and then sent to the manufacturer that produces the scrap or waste material. This letter provides contact information for the markets that want the manufacturer's listed scrap or waste material. The manufacturer can then call the identified markets and arrange for the sale or transfer of its secondary material.

Additional listings are being received almost daily from manufacturers identifying waste and scrap material for which they are seeking markets. New listings are also routinely received from markets that want to find sources of scrap or waste to fill their raw material needs. The more

listings the AIDC receives from manufacturers, the greater the chances are for making good matches between secondary material producers and secondary material users.

In addition to being a good tool to help established manufacturers, ScrapMatch is also becoming a good tool for industrial development. Many new industrial prospects request information about the availability of secondary materials. These materials are being recognized by an increasing number of manufacturers as untapped and under-utilized resources that can reduce production cost and improve competitiveness. ScrapMatch enables the AIDC to give those new prospects information about secondary materials that is often missing or estimated by competing economic development agencies.

"ScrapMatch is one of the most pro-active and dynamic waste exchange programs in the nation," says Al Drinkwater, assistant director of the Established Industries Division of the AIDC.

Since it officially began in October 1993, ScrapMatch has chalked up an industry listing rate of more than 10 percent compared to normal waste exchange listing rates of less than one percent. That means over 10 percent of the manufacturers in the state list secondary materials and/or markets with ScrapMatch.

According to Drinkwater, "The good response from industry to ScrapMatch improves the odds that ScrapMatch will achieve its ultimate goal of being the best industrial waste exchange system in existence."

When asked how manufacturers can help to improve the chances of success for ScrapMatch, Drinkwater said, "Manufacturers must participate in the system if it is going to offer them more and better opportunities. ScrapMatch, like the older waste exchange systems, is still dependent on manufacturers listing their secondary materials in the system. It is also dependent on them making an effort to procure secondary

Set	Items	Description
S1	56604	(SCRAP OR UNUSED OR USABLE OR REMAINING OR LEFT()OVER OR U-NCUT OR UNPUNCH? OR UN() (CUT OR PUNCH? OR SHEAR?)) (2N) (METAL - OR MATERIAL? OR BLANK? ? OR SECTION? OR PIECE?) OR SKELETON
S2	1155253	MATCH??? OR (MAK??? OR MADE) () (AVAILABLE OR ACCESSIBLE)
S3	4038228	FABRICATOR? OR MANUFACTURER? OR METALWORK?
S4	2	S1(7N)S2(10N)S3
S5	2	RD (unique items)
S6	21120053	COMBIN??? OR JOIN??? OR MERG??? OR ADDING OR INCORPORAT??? OR INTEGRAT??? OR INCLUD??? OR (SLOT OR FIT OR ADD OR SLIP) () - IN
S7	3829472	(ONE OR 1 OR CONTINUOUS OR EXISTING OR SAME OR CURRENT OR -UPCOM???) (3N) (JOB OR JOBS OR OPERATION? ? OR ORDER? ? OR FABRICAT??? OR WORK OR PROCESS OR CUTTING OR MILL???)
S8	340299	S6(7N)S7
S9	18058395	SECOND? OR 2ND OR SUBSEQUENT OR SUCCESSIVE OR OTHER OR ANOTHER
S10	240729	S9(5N)S3
S11	1119	S8(2S)S10
S12	3	S11(4S)S1
S13	6	S11 AND S1
S14	6	RD (unique items)

? show files

File 9:Business & Industry(R) Jul/1994-2006/Mar 29  
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File 621:Gale Group New Prod.Annou.(R) 1985-2006/Mar 29  
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File 636:Gale Group Newsletter DB(TM) 1987-2006/Mar 29  
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File 160:Gale Group PROMT(R) 1972-1989  
 (c) 1999 The Gale Group

File 148:Gale Group Trade & Industry DB 1976-2006/Mar 29  
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14/3,K/1 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade &amp; Industry DB

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15531122 SUPPLIER NUMBER: 96696932 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Benchmark input-output accounts of the United States, 1997.**

Lawson, Ann M.; Bersani, Kurt S.; Fahim-Nader, Mahnaz; Guo, Jiemin

Survey of Current Business, 82, 12, 19(91)

Dec, 2002

ISSN: 0039-6222

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 60320

LINE COUNT: 27240

... government industry  
       S00560 General government industry

## SPECIAL INDUSTRIES

S003 Noncomparable imports  
       S00300 Noncomparable imports

S004 **Scrap** , used and secondhand goods  
       S00401 Scrap  
       S00402 Used and secondhand goods

S006 Rest of the world adjustment  
       to final uses  
       S00600 Rest of the world adjustment  
           to final uses

S007 Inventory valuation adjustment  
       S00700 inventory valuation adjustment

## Appendix B. Classification of Value Added and Final

Uses in the 1997 Benchmark Input-Output Accounts

(The titles in boldface represent ...3324 Boilers, tanks, and shipping

containers	76	4,184
332B Other fabricated metal products	331	2
,943		
3334 HVAC and commercial refrigeration equipment	1	10
3370 Furniture and related products	(*)	11
5413 Architectural and engineering services	...	562
Engines and turbines Total	79	3,754
3336 Turbine and power transmission equipment	79	3,535
5413 Architectural and engineering services	...	219
Metalworking machinery Total	2,286	29,762
3335 Metalworking machinery	2,123	27,955
5413 Architectural and ...		
parts	6	372
3364 Aerospace products and parts	185	14,079
S004 Scrap, used and <b>secondhand</b> goods	1,039	364
Ships and boats		



Total	213	2,711
336B Other transportation equipment	155	2,629
S004 Scrap, used and secondhand goods		
58 82		
...metal		
product manufacturing	...	...
3331 Agriculture, construction, and mining machinery	...	...
3332 Industrial machinery manufacturing	...	...
3333 Commercial and service industry machinery	...	...
3334 HVAC and commercial refrigeration equipment	...	...
3335 Metalworking machinery manufacturing	...	...
3336 Turbine and power transmission equipment manufacturing	...	...
3339 Other ...administrative and support services	...	...
5620 Waste management and remediation services	...	...
6100 Educational services	...	...
6210 Ambulatory health care services	...	...
6220 Hospitals	...	...
6230 Nursing and residential care facilities	...	...
6240 Social	...	...

**14/3,K/2 (Item 2 from file: 148)**

DIALOG(R) File 148:Gale Group Trade & Industry DB  
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13023478 SUPPLIER NUMBER: 66278226 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Current Labor Statistics.(Statistical Data Included)**

Monthly Labor Review, 123, 7, 35

July, 2000

DOCUMENT TYPE: Statistical Data Included ISSN: 0098-1818

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 26524 LINE COUNT: 08711

... which is consistent with the basis for valuation of imports in the national accounts. The **second** is the import price c.i.f. (costs, insurance, and freight) at the U.S. port of importation, which also includes the other costs associated with bringing the product to the U.S. border. It does not, however, include duty charges. For a given product, only one price basis series is used in the construction of an index.

FOR ADDITIONAL INFORMATION on international prices, contact the Division of International Prices: (202) 691-7155.

**Productivity Data**

(Tables 2; 39-42)

Business sector and major ...1992 survey, BLS began publishing details on serious, nonfatal incidents resulting in days away from **work**. **Included** are some major characteristics of the injured and ill workers, such as occupation, age, gender, race, and length of service, as well as the circumstances of their injuries and illnesses (nature of the disabling condition, part of body affected, event and exposure, and the source

directly producing the condition). In general, these data are available nationwide for detailed industries and for individual States at more aggregated industry levels.

FOR ADDITIONAL INFORMATION on occupational injuries and illnesses, contact the Office of Occupational Safety, Health and Working Conditions at (202) 691-6180, or access the Internet at:

<http://www.bls.gov/oshhome.htm>

#### Census of Fatal Occupational Injuries

The Census of Fatal Occupational Injuries compiles a complete roster of fatal job-related injuries, including detailed data about the fatally injured workers and the fatal events. The program collects and cross checks fatality information from multiple sources, including death certificates, Stworkers' compensation reports, Occupational Safety and Health Administration and Mine Safety and Health Administration records, medical examiner and autopsy reports, media accounts, State motor vehicle fatality records, and ...minerals

		93.5	93.5	93.6
28	Metalliferous ores and metal scrap	70.6	70	7
72.3				
3	Mineral fuels, lubricants, and related products	100.7	102.0	109.0
32	Coal, coke, and briquettes	98.4	98.3	98.2
33	Petroleum, petroleum products, and related materials	105.3	107.6	119.8
4	Animal and vegetable oils, tats, and waxes	81.9	76.6	76.8
5	Chemicals and related products, n.e.s.	90.7	91.2	91.6
54	Medicinal and pharmaceutical products	100.6	100.6	100.3
55	Essential oils; polishing and cleaning preparations	101.8	101.9	101.9
57	Plastics in primary forms (12/92 = 100)	86.6	88.4	89.7
58	Plastics ...0 93.3 93.1 93.8			
	Metalliferous ores and metal scrap	73.0	73.5	75
.1	77.3			
	Mineral fuels, lubricants, and related products	113.8	115.3	119.5...
...	minerals	94.1	94.3	94.0
	Metalliferous ores and metal scrap	78.4	80.0	80.7
	Mineral fuels, lubricants, and related products	126.6	129.5	138.5
	Coal, coke, and briquettes	97.5	96.1	96.1
	Petroleum, petroleum products, and related materials	140.1	143.6	159.6
	Animal and vegetable oils, tats, and waxes	78.0	75.8	74.3
	Chemicals and related products, n.e.s.	93.6	93.8	94.2
	Medicinal and pharmaceutical			

Consumer goods, excluding			
automotive	102.4	102.4	102.5
Nondurables, manufactured	102.9	102.8	102.6
Durables, manufactured	100.8	101.0	101.4

**14/3,K/3 (Item 3 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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11985532 SUPPLIER NUMBER: 61560737 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**ASSEMBLY WITH MOLTEN METAL.**

MUIR, MIKE

Assembly, 43, 3, 44

March, 2000

ISSN: 1050-8171 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1250 LINE COUNT: 00105

... the components together caused warpage and wobble in the assembly. It also resulted in excessive **scrap metal**. Die casting the hub by metal injection cured those problems. Today, electric watt-hour meter manufacturers throughout the world still rely on injected metal assembly because of the accuracy and permanence of the finished assemblies, and the cost-effectiveness of production.

In the intervening years, manufacturers and users of small component assemblies have harnessed the benefits of injected metal for two purposes:

- \* Forming additional components directly onto an assembly.
- \* Joining multiple small components up to 6 inches in diameter, and Joining Parts

As a joining medium, injected metal connects abrasive wheels, discs, electric motor rotors, gears, magnets and other components to posts, stems, shafts and mandrels of virtually any material.

Parts of virtually any material and shape, up to 6 inches in any dimension, can be joined in a single operation. Simple assemblies can be produced at rates of more than 1,000 per hour. An assembly is an ideal candidate when:

- \* A shape that is formed as part of the joint can replace a component.
- \* Strong, dimensionally accurate assemblies are required.
- \* Multiple components must be positioned in relation to one another, particularly if they are otherwise joined by separate operations.
- \* Joining components of different materials, including heat-sensitive materials.

For such assemblies, the IMA process is a cost-effective replacement for time-consuming operations such as welding and soldering, press fitting, drilling and pinning, crimping, stamping, bonding, brazing, swaging and staking. Production rates often can be doubled by eliminating one or more of these operations. And because the assembly tooling holds the components in correct relationship to one another during die casting, assembly tolerances are maintained consistently over long production runs.

**Making Components**

As the production method to form small components and features of any shape directly onto an assembly, die casting provides the opportunity to reduce the number of components that manufacturers must purchase.

A prime example is forming terminations of virtually any shape directly onto wire and cable. With cable-operated mechanisms proliferating in automobiles worldwide, automotive industry suppliers rely on semiautomatic and fully automatic machines to form a wide range of die cast

zinc alloy terminations quickly and inexpensively.

For high-tension applications, such as cable hood releases and seat and window mechanisms, individual wire strands at the end of a cable are splayed into the shape of a birdcage. Upsetting the cable end in this manner enables molten metal to grip the individual strands, thereby allowing the terminations to withstand high loads. In torque tests, the cable breaks before the zinc alloy termination pulls off.

#### Joining Dissimilar Materials

The IMA process is suitable for joining a wide range of materials, including metals, plastics, ceramics, glass, paper, fibers and elastomers.

Fragile and heat-sensitive materials are left undamaged by the die casting assembly process because the injected zinc alloy solidifies in milliseconds, and because the water cooled tooling continuously dissipates heat. Examples include joining a thin glass disc or a delicate ceramic magnet to a shaft, forming a zinc alloy termination around a fiber rope, casting a threaded connector to a plastic coated steel cable, and attaching a paper label to a disc and shaft assembly.

#### Built-in Quality Control

Injected metal assembly can join two or more components to tight assembly tolerances over long production runs. This is possible because the tooling locates the components by their functional features, and not by closely toleranced hole sizes and positions.

In riveting applications, molten zinc alloy replaces conventional riveting by flowing through holes of any shape or size to form a rigid lock between components. Riveting sheets of laminated stampings in this manner, for example, reduces the need for exacting tolerances because the molten zinc compensates for alignment inaccuracies caused by undersized, oversized, out-of-round or misaligned holes.

The IMA process can maintain the location of a shaft to within (plus or minus) 0.002 inch of the face of an aluminum disc. At the same time, the outside diameter of the disc is held concentric to the outside diameter of the shaft, within 0.005 inch. Wherever a component must be aligned and joined to a shaft, tolerances can be relaxed because variations in the size and location of the center hole are compensated for by the molten alloy, which fills the void, then shrinks around the components to form a strong mechanical lock.

Confident that components will be held in correct relationship as the metal solidifies, and that assemblies will not require secondary operations, manufacturers can scale back their inspection of ...assembly required press fitting, drilling and pinning--a 3-minute operation. Today, the parts are **joined** with die cast zinc alloy in **one operation** that takes from 10 to 12 seconds.

\* Instead of staking and soldering a flexible steel cable to an oil dipstick blade, an automotive supplier die casts a zinc connecting sleeve in a one-step operation.

\* A threaded bushing on a refrigerator control switch is simultaneously formed by die casting and attached to a stamped cover plate.

\* A zinc collar formed by die casting to a steel hose fitting replaces a fabricated brass collar that was formerly brazed into position.

\* A hardware manufacturer die casts hex fittings for quick-change drill bits.

\* A connector with a 360-degree external thread is cast directly to a plastic-coated steel conduit, eliminating a premanufactured connector.

\* A slotted rectangular housing is die cast onto a bimetallic strip for a temperature control unit.

**14/3,K/4 (Item 4 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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08111544 SUPPLIER NUMBER: 17349909 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Sustainable forest management: where do you fit in? (includes related articles)**

Koenig, Karen M.; Headley, Jean  
Wood & Wood Products, v100, n8, p44(4)  
July, 1995

ISSN: 0043-7662 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 3009 LINE COUNT: 00264

... their decision making and place themselves in a larger context. There are retailers and secondary **manufacturers** who don't even consider themselves as part of the forest industry. They don't really see that connection. They don't always recognize how what they do relates back to a living resource. Our objective is to develop that awareness so that companies can develop strategies that take advantage of that," Simeone added.

"One value of the matrix is that it gives you a piece of the map that helps you think more strategically," said Richards. "I recognize where I work in this whole panoply of places and forces that are impinging on the forests. It helps answer 'Where am I? Where is my organization in all of this?'"

"The matrix, because of the way it's set up, forces you to think about whatever link there is between one level, the level above and the level below," Richards added.

Said Mater, "This matrix can help people realize the markets where they ought to go, both wood based and non-wood based, from a good business, bottom line basis.

"You talk to woodworkers and they'll tell you they're converting waste into value. But then you ask them, 'Are you convening it into the highest value you could be getting?' Instead of burning it for fuel, could they be making it into a sellable product? The matrix provides the framework that requires you to ask questions - not just rely on conventional wisdom," Mater added.

"This matrix is not an attempt to capture or address all of the different causes of deforestation," Jenkins said. "It focuses exclusively on the commercially marketed segment of forest use....The matrix is meant to be a conceptual tool that can help us understand the dynamic context of a very complicated basic industry."

#### RELATED ARTICLE: THE MATRIX TEAM

Team members were chosen by the MacArthur Foundation based on their varied knowledge in the forestry field: wood and non-wood based products, engineering and marketing experience.

Michael Jenkins, the coordinator of the matrix team, is the Associate Director of the World Environment and Resources Program at the MacArthur Foundation. His responsibilities include all WER program grantmaking in Latin America and the Caribbean. Before joining the MacArthur Foundation, he spent three years in Haiti as a professional agro-forester and consultant for the U.S. Peace Corps. In addition to 10 years experience in Latin America, he has also worked for Appropriate Technology International as a technical specialist for sustainable natural resource management in tropical countries.

Bob Simeone is a founding member of the Forest Stewardship Council. He works as a forestry consultant, primarily in Central and South America, with experience also in the temperate forests. He has a private consulting business in Wisconsin.

Catherine Mater is an engineer at Mater Engineering. She has experience on the manufacturing side of the equation, including the engineering, technology and design of equipment and products. She has also done extensive work in determining consumer influences with regards to product design and marketing.

Thomas Fricke's experience is as an "ecopreneur" in the non-timber

based area of forestry, with an emphasis on Southeast Asia forest lands. In addition to consulting, he is the vice president of EcoTech International, which develops marketable products from various ecological products. He previously worked with Cultural Survival and was instrumental in the successful marketing of "Rainforest Crunch" nuts.

David Richards' area of expertise is in policy development, particularly in tropical areas such as New Guinea. He is associated with the World Resources Institute. "The perspective I was supposed to bring to the team was a bridge between the environmental imperatives and the economic development imperatives," Richards said.

RELATED ARTICLE: SOFTWARE HELPS PROMOTE HEALTHY FORESTS

Woods of the World, an interactive, multi-media database, provides instant access to a wide range of information on all of the world's commonly traded woods and hundreds of lesser-known species. Developed by Dr. Charles K. Baah, the program covers more than 900 wood species and dozens of wood composite products.

"This will increase the value of these woods and encourage the maintenance of healthy, productive rainforests," said Richard Miller, executive director of Tree Talk Inc., a Vermont-based non-profit education organization. "The software highlights the environmental status of most species. Wood users can now check to find out if a wood they are using or specifying is already endangered or threatened.

"Fortunately, many of the lesser-known species have similar features," Miller said.

Woods of the World allows users to access information from up to 85 categories of data, including: common names, uses, color, texture, odor, luster, grain, static bending, compression strength, sawing properties and planning properties. The program was funded by John D. and Catherine T. MacArthur Foundation, W. Alton Jones Foundation, John Merck Fund, Heinz Family Foundation and Andersen Windows.

Woods of the World is available for PC and Macintosh computers, on either CD ROM

14/3,K/5 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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06664962 SUPPLIER NUMBER: 14017494 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Ferrous scrap market cools after last week's skyrocket.**

Marley, Michael

American Metal Market, v101, n127, p1(2)

July 2, 1993

ISSN: 0002-9998

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 575

LINE COUNT: 00042

ABSTRACT: Prices on ferrous **scrap metal** have not increased any further, since the dramatic rise in price of \$14 per ton...

...have bought much of the tonnage at increased rates, but has not bought any new **scrap metal**. Another factor in the rise of prices may be the prime industrial scrap market's low supply of **scrap material**. In addition, electric furnace steel producers have bought much scrap to ensure themselves of a supply.

... are stronger and the flow from industrial sources, like the auto industry stamping plants and **other metalworking** suppliers, will be reduced because of the summer vacation shutdowns.

As a result, he added, many of these steel mills are pushing to ensure their supply of prime low-residual scrap. "They are all out there trying to buy the same bundle," he said.

A Detroit-area processor said he likewise believes that many of the

integrated mills are short of prime scrap and are jumping into the market to ensure their supply for the next month or two.

Still another processor in that region argues that the price spread between the No.1 dealer bundles and the obsolete grades like shredded scrap and No.1 heavy melt had narrowed in recent months, drawing some of the electric furnace steel producers to buy up as much of the industrial scrap as they could get.

In Pittsburgh, sources said the average price for bundles ranged from \$140 to \$142 a gross ton, though one mill has reportedly paid as much as \$145 a ton for its grade of prime bundles. In Chicago and Detroit, integrated mills raised the ante by \$12 to \$14 a ton for No.1 dealer bundles and 5-foot plate and structural scrap.

Whatever the reasons for the integrated price moves, many of the electric-arc furnace steelmakers appeared to be declaring independence from that industry brethren as the week passed. They were resisting the offers from processors and brokers that often parallel the price gains paid by the integrated mill.

By Thursday, few had issued their buy orders for the month and many of the key mill buyers said they were prepared to wait out the market, and not buy even a pound for scrap until after the July Fourth holiday.

One eastern mill buyer said suppliers that had offered him tonnage earlier in the week at prices that were up between \$12 and \$14 a ton and were now calling back and were willing to ship if they could get half that increase.

DESCRIPTORS: **Scrap metal** industry--Prices and rates

**14/3,K/6 (Item 6 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB

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05792091 SUPPLIER NUMBER: 11866708 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**The M&A Rosters; third quarter 1991.**

Mergers & Acquisitions, 26, n4, 65(65)

Jan-Feb, 1992

ISSN: 0026-0010 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 104170 LINE COUNT: 10201

... of Pan Am. Delta paid \$416 for the routes and Shuttle and invested \$305 million in the ongoing Pan Am business, or \$721 million. Delta paid \$205 million in cash for Pan Am shares and 10-percent senior notes, plus a \$100 million working capital facility. Delta was also to assume up to \$100 million of ticket liabilities, provide \$80 million of immediate interim financing, take on 6,600 Pan Am employees, and fund up to \$100 million of Pan Am's losses over \$140 million incurred between August and December 1, 1991. Pan Am creditors were to receive about \$621 million in cash and 55 percent of the reorganized Pan Am. Delta and the ongoing Pan Am would assume some \$720 million of liabilities. The transaction received bankruptcy court approval. Principals: Delta Air Lines is a certified trunk air carrier providing scheduled air transportation for passengers, freight, and mail over routes throughout the U.S. and abroad. Its routes connect the Northeast and Midwest with the southern states from Texas to Florida; the Southeast to the Midwest, West, Northwest, and California; and the East Coast to Florida. It also operates flights to Canada, Bermuda, the Bahamas, France, Ireland, Japan, South Korea, Mexico, Taiwan, Puerto Rico, England, the Netherlands, Thailand, and Germany. At June 30, 1990, it provided air transportation to 148 domestic cities in 45 states; Washington, D.C.; and Puerto Rico, and 26 cities in 13 foreign countries. It had 96.46 billion available seat miles, 58.99 billion revenue passenger miles, and 67.24 million revenue passengers enplaned. Its passenger load factor was 61.15

Set	Items	Description
S1	56604	(SCRAP OR UNUSED OR USABLE OR REMAINING OR LEFT()OVER OR U-NCUT OR UNPUNCH? OR UN() (CUT OR PUNCH? OR SHEAR?)) (2N) (METAL - OR MATERIAL? OR BLANK? ? OR SECTION? OR PIECE?) OR SKELETON
S2	1155253	MATCH??? OR (MAK??? OR MADE) () (AVAILABLE OR ACCESSIBLE)
S3	4038228	FABRICATOR? OR MANUFACTURER? OR METALWORK?
S4	2	S1(7N)S2(10N)S3
S5	2	RD (unique items)
S6	21120053	COMBIN??? OR JOIN??? OR MERG??? OR ADDING OR INCORPORAT??? OR INTEGRAT??? OR INCLUD??? OR (SLOT OR FIT OR ADD OR SLIP) () - IN
S7	3829472	(ONE OR 1 OR CONTINUOUS OR EXISTING OR SAME OR CURRENT OR -UPCOM???) (3N) (JOB OR JOBS OR OPERATION? ? OR ORDER? ? OR FABRICAT??? OR WORK OR PROCESS OR CUTTING OR MILL???)
S8	340299	S6(7N)S7
S9	18058395	SECOND? OR 2ND OR SUBSEQUENT OR SUCCESSIVE OR OTHER OR ANOTHER
S10	240729	S9(5N)S3
S11	1119	S8(2S)S10
S12	3	S11(4S)S1
S13	6	S11 AND S1
S14	6	RD (unique items)
S15	10932	(UTILIZ? OR OPTIMIZ?) (1N)LAYOUT? OR NESTING
S16	24	S15(S)S1
S17	20	RD (unique items)
File	9:Business & Industry(R)	Jul/1994-2006/Mar 29
	(c) 2006	The Gale Group
File	275:Gale Group Computer DB(TM)	1983-2006/Mar 29
	(c) 2006	The Gale Group
File	621:Gale Group New Prod. Annou. (R)	1985-2006/Mar 29
	(c) 2006	The Gale Group
File	636:Gale Group Newsletter DB(TM)	1987-2006/Mar 29
	(c) 2006	The Gale Group
File	16:Gale Group PROMT(R)	1990-2006/Mar 30
	(c) 2006	The Gale Group
File	160:Gale Group PROMT(R)	1972-1989
	(c) 1999	The Gale Group
File	148:Gale Group Trade & Industry DB	1976-2006/Mar 29
	(c) 2006	The Gale Group



17/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01252190 SUPPLIER NUMBER: 06849533 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**PowerTools provides Mac Platform with comprehensive CASE functions.**

Perrone, Giovanni  
PC Week, v5, n29, p73(2)  
July 18, 1988

ISSN: 0740-1604 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1575 LINE COUNT: 00133

... FORTRAN-77, LISP, Prolog, Modula-2 and PDL.

SmartChart uses the PDL source file, a **nesting** tree file and editing commands to produce structure charts and program source code. Structure charts...

...a special file named "Structure Chart" has been generated by PowerPDL; this file contains a **nesting** tree derived from the corresponding PDL source file. The **nesting** tree is a PDL representation of a program's control ( **nesting** ) structure. PowerPDL (version 1.4), formerly called the PRISM Design Language, is a software design tool that performs two functions. First, it translates the FreeFlow **skeleton** PDL file (pseudocode) into **nesting** trees used by SmartChart to create structure charts. Second, it generates formatted documentation from the PDL at any design phase.

PowerPDL provides many special features that contribute to its overall effectiveness. It produces a table of contents for the design document. Easy-to-learn/understand Adalike keywords are used to group the design body (subprograms, externals and comment blocks) into packages.

Data cross-reference lists show data item definition and use. Subprogram cross-reference lists and nesting trees indicate dependency level and depth. Especially helpful is a Strip utility, which will automatically extract any PDL comments embedded in the source code; this eases the process of upgrading documentation during program maintenance.

Finally, PowerPDL produces a PDL listing file and a nesting tree file.

The newly revised PowerTools User's Guide is beautifully typeset and extensively illustrated, with effective instructions for each tool as a separate entity. Appendixes provide extensive examples of tool features.

#### Poor Documentation

Overall, however, the User's Guide is a surprisingly poor example of software documentation. As a PowerTools reference, it is a complete failure. It lacks an index; the table of contents is inadequate and sections are difficult to differentiate. This makes it extremely difficult to find anything.

Further annoying users, some introductory text is repeated, and frequent references to future enhancements are sprinkled throughout. Considering the type of software (CASE) and its price, such poorly executed documentation is particularly intolerable.

All PowerTools floppy disks are copy-protected. Installation is completed by first opening the master-disk icon and following the simple installation dialogue box. To move the program to a hard disk, it must first be deinstalled to the master floppy disk, again using the dialogue box remove procedure.

PowerTools offers extensive support for many important software-engineering life-cycle tasks. It effectively automates analysis and design, and integrates the output for use in other life-cycle phases.

Further, its data dictionary and minispec capabilities prove useful in many documentation tasks. Real-time extensions to FreeFlow and the addition of FastTask make it suitable for use on many projects.

PowerTools 2.0 has rapidly evolved into a unique Macintosh-based CASE product. All it needs is satisfactory documentation.

**17/3,K/2 (Item 1 from file: 621)**

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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03933393 Supplier Number: 130048153 (USE FORMAT 7 FOR FULLTEXT)  
**Forest Lands Beautification Program Yields 'Fab Five' Over Five-Year Program.**

PR Newswire, pNA

March 10, 2005

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1310

... a waiting barge. Upon their return, the volunteers unloaded the barge and carried the tires, **scrap metal** and bags of trash up the docks to the disposal containers. The U.S. Coast Guard, township officials, local boat clubs and many other groups joined with volunteers, Valley Forge State Forest staff, and PA CleanWays to help make the cleanup of Little Tinicum Island a success.

CONTACT: Gretchen A. Leslie

(717) 772-9101

CONTACT: Gretchen A. Leslie of Pennsylvania DCNR, +1-717-772-9101

Web site: <http://www.cleanpaforests.org/> <http://www.state.pa.us/>

**17/3,K/3 (Item 2 from file: 621)**

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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01012071 Supplier Number: 39608462 (USE FORMAT 7 FOR FULLTEXT)  
**OPTIMATION TECHNICAL BREAKTHROUGHS SPEED METAL NESTING , CUT SCRAP**

PR Newswire, pN/A

Oct 10, 1985

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 782

**OPTIMATION TECHNICAL BREAKTHROUGHS SPEED METAL NESTING , CUT SCRAP**

... SUBJECT: ROBOTIC TECHNICAL ADVANCES ANNOUNCED

DATE: OCTOBER 10, 1985

CLIENT: OPTIMATION

**OPTIMATION TECHNICAL BREAKTHROUGHS SPEED METAL NESTING , CUT SCRAP**

Las Cruces, NEW MEXICO---

Four new technical breakthroughs have been announced by Optimation, a leading supplier of fabrication automation software and systems headquartered in Independence, Mo., with marketing offices in Las Cruces, N.M.

The new software developments speed up material nesting, retrieve what was formerly clamp space waste, automate the tool management function in punch operations, and automatically designate suction cups in FMS material handling systems, according to Tom Hendricks,

Optimation's sales manager.

"We've found a way to speed the automatic nesting program up 4-5 times with in-line coding," said Hendricks. "When we create the nest solution we have to output it to the machine promptly. That's where we've cut time," said Hendricks.

The new-found speed applies to the company's Optinest and Optipunch nesting programs for NC controlled punch and flame cutting operations.

The speed of the process is application dependent, he noted. Some computer nesting processes, with very complicated geometries and limited computer power, were taking fifteen minutes to an hour to accomplish. "Now really tough jobs are done in as little as three minutes. This means parts can be in the fabrication process within 15 minutes of when requirements are known," he said.

Optimation has also announced advances in their Optipunch software (automated punching with laser or plasma contouring) which will automatically take into consideration work under clamp locations and allow parts to be cut all the way to the edge of raw materials. Prior to this, according to Hendricks, the strip of material along the work clamp edge was written off as scrap.

"Now we can go to the edge of the sheet," said Hendricks. On a 4x8 foot sheet, the clamp area would typically be 4-8 inches on the top or side to allow for work clamps to physically move the materials. "In the past you couldn't really nest any parts in this area," he said. "It would normally be sheared off, or not used. Now we have a way of getting parts out of this sheet that go all the way down into this former scrap region. We're using the full dimension of the material now."

Another Optipunch improvement which has been developed handles tool management and tool changing functions which are now built into the automatic nesting programming.

"Certain machine tool configurations are limited by the number of tools they can have on line, be it 12-20-30, whatever," explained Hendricks. "What we have in the software now is directions to constrain the nest so it will only nest parts which can be cut by the tools presently in the machinery's turret. If you have 24 tools, the software will only nest those parts for cutting which can be cut using those 24 tools.

"That's one option with the new software," he continued. "The other is that the computer can look at the parts you require and it will tell you which tools to put in the turret so you can fabricate the maximum number of parts."

The company also has announced a software improvement for their FMS material handling systems which automatically activates suction cup selection for part pick-up robotics after cutting. Prior to the development suction cup selection had to be done manually, according to Hendricks.

Current users of Optimation programs, on maintenance contracts, will receive new program updates during their next scheduled maintenance, according to Hendricks.

Optimation was founded in 1977 with the development of Alpha Steel Optimization Program (ASOP), a speedy software program which solved sheet metal part blank assignment problems. Since then the firm has moved to the forefront of factory cost-driven automation/robotic software for flame, plasma, laser, water jet, shearing and punching processes either in single machines, or in entire factory systems. The company now offers, besides ASOP, Optinest, Optipunch, Optipart and FMS software systems. Fiscal 1985 sales are expected to hit \$14,000,000 according to Wilson Lundy, executive vice president and marketing manager.

The company employs 33 in its headquarters/think-tank facility in Independence, Missouri, and an additional seven based out of a marketing office in Las Cruces, New Mexico. The Optimation staff has grown six times in the past year while revenues are up 400 percent.

Optimation software is currently driving fabrication systems in Canada, Europe and the United States. U.S. customers include American Hoist, Caterpillar, the Electromotive Division of General Motors and General Electric's plant in Wisconsin, among others.

From/For Further Information: Brad Cooper or Mary Ann Robbins, deBruyn-Retting Advertising, Inc./Public Relations Dept., 4487 N. Mesa, El Paso, Texas 79902, (915) 532-4117, OR Wilson Lundy (505) 552-3303

**17/3,K/4 (Item 1 from file: 636)**

DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2006 The Gale Group. All rts. reserv.

06162850 Supplier Number: 139519398 (USE FORMAT 7 FOR FULLTEXT)  
**Shaped components.(Hygiene)**  
Medical Textiles, p8  
Dec, 2005  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 194

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...as absorbent cores for use in disposable absorbent articles. The method uses the principle of **nesting** to reduce the amount of **unused trim material**.

**17/3,K/5 (Item 2 from file: 636)**

DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2006 The Gale Group. All rts. reserv.

06008945 Supplier Number: 131857836 (USE FORMAT 7 FOR FULLTEXT)  
**Method of making shaped components for absorbent articles.(Hygiene)**  
Medical Textiles, p8  
May, 2005  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 349

... minimizing or eliminating material waste. The method described in the Patent uses the principle of **nesting** to reduce the amount of **unused trim material** when cutting individual subdivided, shaped webs from a wide

web.

For further information, see European Patent 1 448 371, or contact:  
Rayonier Inc, 50 North Laura Street, Jacksonville, FL 32202, USA; tel:  
+1-904-357-9100; fax: +1-904-357-9101; Internet: www.rayonier.com

**17/3,K/6 (Item 1 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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11713935 Supplier Number: 126315303 (USE FORMAT 7 FOR FULLTEXT)  
**Jet to Broadway.(Fluid Handling And Fluid Power)**  
Ehrenman, Gayle  
Mechanical Engineering-CIME, v126, n12, p24(2)  
Dec, 2004  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Refereed; Trade  
Word Count: 503

... helped improve the bottom line on a couple of fronts," he said.  
"First, the tight **nesting** of parts allows for better material usage,  
meaning more parts per sheet of **metal** and less **scrap material** . And,  
since we're better able to keep pace with production, we're able to take on  
more work and pay out less in overtime costs."

**17/3,K/7 (Item 2 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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09667752 Supplier Number: 84221702 (USE FORMAT 7 FOR FULLTEXT)  
**FAB Professional : Sheet-metal design.(Software Review)(Evaluation)**  
Davis, Pat  
CADalyst, v19, n1, p44  
Jan, 2002  
Language: English Record Type: Fulltext  
Article Type: Evaluation  
Document Type: Magazine/Journal; Trade  
Word Count: 2374

... filling, squaring all parts at the far end of the sheet to create  
the largest **piece** of **scrap** available, **nesting** direction, and corner  
of sheet to start.

You then insert the layout(s) from the processed nest kit into a  
drawing. SS-NEST creates a part table to show sheet and part numbers,  
number of parts, and sheet use percentage. Then you generate an NC program  
with SS-PROFILE and SS-PUNCH.

I was impressed with how well SS-NEST works. With SS-NEST, I created  
a nested sheet in a fraction of the time it would have taken manually,  
while reducing scrap an average of 15%.

#### SS-PUNCH

SS-PUNCH (\$4,995 stand-alone) is a graphical system used to create  
tooling paths for CNC turret punch presses. A customized postprocessor  
translates graphical tooling into a machine-specific NC program. Once you  
load a post into a drawing, SS-PUNCH represents the machine table, material  
sheet size, and available punching area in the drawing with  
different-colored hidden lines (figure 5). Clamps, clamp dead zones, and  
clamp travel ranges are represented and numbered in ascending order from  
the load position of the table.

SS-PUNCH provides several methods to create tooling paths, including  
a Quick Punch command. You simply create or insert the part, start the

Quick Punch command, and select a perimeter edge of the part. As long as the machine driver has available tooling set in the turret configuration, it tools the entire part. It processes the part based on your current part option settings. As with all the tooling path creation options, if a problem arises with a particular shape, SS-PUNCH marks that shape with a callout.

You can also create tooling paths by using the Full Auto Process or Punch Part commands. The Full Auto Process commands provide a dialog box where you access all the commands necessary to process a part. You can modify the turret or change the program information. The punch part commands let you specify how to process a part. These include perimeter, corner, hole, standard shape, irregular hole, and part information options.

As SS-PUNCH processes a part, it searches for turret and cribs based on your configuration to find the appropriate tooling. If it doesn't find the tooling shape, the program uses multiple tools to clear the shape or marks it with a star if it determines the shape can't be processed with available tooling. Once the part is tooled, you can easily create a multiple part grid, or the part can be nested with the SS-NEST module.

SS-PUNCH provides a flexible turret control system that lets you create and save multiple turrets. You can also create new tools.

A quick toolpath optimization option lets you optimize a single tool or all the tools at once. You can limit toolpath direction, maintain cycle hits, and check for duplicate hits. An interactive toolpath optimization option is also available. Automatic and interactive repositioning commands give you control over tool processing and handling unique situations. The Auto-Repositioning command automatically detects tool hits that are outside the valid punching area. If the sheet needs to be moved, flipped, or rotated, SS-PUNCH walks you through the process of repositioning the sheet.

#### SS-PROFILE

SS-PROFILE (\$4,995 stand-alone) is a graphical system that creates automatic and interactive tooling paths for CNC laser, plasma, oxyfuel, water jets, routers, and other two-axis cutting machines. It uses customized postprocessors to translate graphical tooling into a machine-specific NC program.

Once a post loads into a drawing, SS-PROFILE displays with different-colored hidden lines to show the machine table, material sheet size, and available burning area. It represents and numbers clamp, clamp dead zones, and clamp travel ranges in ascending order from the load position of the table.

The simplest way to create a toolpath is to use the Auto Part Define command and select the perimeter of the part. Cutting conditions are obtained from the user-configurable Profile Utilities dialog box. SS-PROFILE automatically applies the proper kerf compensation and applies lead-ins and lead-outs based on settings in the Modify Default Leads dialog box. A yellow toolpath warns you if a lead-in or lead-out cuts into a part.

SS-PROFILE also offers extensive toolpath modification and optimization options. By simply picking on the part, you can adjust kerf values and cutting conditions. You can optimize parts according to their order and location, maximize head-down possibilities, reorder internals, move the leads, and ensure that the cutting head doesn't pass over a previously burned path.

#### General information

SS-PROFILE and SS-PUNCH use the same interface to create an NC program. It's straightforward and offers options such as creating a

17/3,K/8      (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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09039681      Supplier Number: 78728495      (USE FORMAT 7 FOR FULLTEXT)

**Higher Efficiency. (service centers use optimization software)**

PINKHAM, MYRA

Metal Center News, v41, n10, p46

Sept, 2001

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1790

... systems, such as inventory accounting, and allows for customized output reports.

SigmaNEST uses True Shape **Nesting**, which allows **nesting** of parts within the cutouts of other parts; multi-torch **nesting**, which allows the cutting of four to six parts simultaneously; and remnant **nesting**, where parts can be nested on irregularly shaped sheets, maximizing the use of remnant **material**.

**Scrap and remnant reduction**

Rocco Venuto, engineering project manager for A.M. Castle & Co., Franklin Park, Ill., says material optimization software has been very important to his service center operation.

"We produce parts in different shapes from plate to exact customer specifications and very often we get orders from different customers for the same width and grade plate. With this software (he uses SigmaNEST), we can fit more on one piece of plate," he says. "We use a lot of high-end material, including titanium and stainless steel, so it is very important that we don't have any waste."

The software retains images of all the remnant shapes, too, allowing Castle's machine operators to determine "which remnant is best suited for a specific project or if we should use a flesh piece of plate."

As a result, Castle has been able to reduce the number of remnants it has on hand and increase the average surface size of those remnants. "Within a year of using this program, we eliminated about one-third of the remnants we previously had," Venuto says.

Alton Prillaman, sales and information technology manager for O'Neal Steel Inc.'s Roanoke, Va., branch, says using SigmaNEST has reduced his plate scrap generation by 10 to 15 percent vs. nesting parts manually. "It also integrates well with our CAD files. We get a lot of (electronic) files from customers and being able to use them reduces the time it would take to create our own profiles."

Robinson Steel's Labriola says that with TruNEST, his operators can prepare nests more quickly and can combine shapes from various orders, using the best square footage of plate.

"It is integrated into our database so we can run it in real time, optimizing the production process and getting a maximum yield," he says. "One of its strengths is its ability to read CAD/ CAM files and translate them into a format that is usable by the program."

Shop Data Systems' Parts II Plus has resulted in a 35 percent reduction of scrap at American Alloy Steel Inc., Houston, and has allowed the company to cut multiple shop orders at once instead of pulling the plate out of stock several times, maintenance supervisor Charles Bales says. "Previously, 15 to 20 percent of the time we would miss shop orders and have to put the plate back on the table."

**Conversion and training**

These competing software solutions are not without some weaknesses. The software companies "got a little behind in the conversion to Windows from DOS," Bales says, "but they are catching up."

Another general disadvantage, Castle's Venuto says, is that operators must be trained to use the software. "It is user friendly, but it is not totally intuitive. You need to bring a certain skill set to it. It is best suited for more educated employees."

Software companies say the packages they offer are continually evolving and adding functions. "Machine tools by nature continue to improve

and we need to support that with our software," Magestic's MacLean says. "And the way our customers are doing business is changing. There is a big difference in the needs of job shops vs. service centers vs. manufacturers. All have different ways of doing business. But by using different modules with our software, we can address their unique needs."

"There are always things we can add," Pattern Systems' Barkhausen says. "We plan to add more database capabilities and allow the user to drag more data through the system."

In addition to SDS's targeting Windows functionalities, Edwards says future developments for Parts II Plus shall include a more fully integrated system from part order entry to material requirements to customer invoicing. "Also, nesting algorithms will continue to improve as computer processing speeds increase."

As software capabilities improve, more service centers will use nest-based yield optimization software, Sigmatek's Binder believes, driven by the pressures to increase efficiency and productivity in their metal processing operations.

(ILLUSTRATION OMITTED)

17/3,K/9 (Item 4 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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07045164 Supplier Number: 57782407 (USE FORMAT 7 FOR FULLTEXT)

**VX Vision.(Varimetrix CAD/CAM software)(Product Announcement)**

RM

Computer-Aided Engineering, v18, n3, p27

March, 1999

Language: English Record Type: Fulltext

Article Type: Product Announcement

Document Type: Magazine/Journal; Academic Trade

Word Count: 842

... it furthers that approach in VX Vision. Functions include milling, turning, wire EDM, and part **nesting**. Modeling of in-process workpieces is supported for material removal analysis. Some of its more...

...be 5-axis swarf-cutting, bi-tangent machining, pencil tracing, and automatic cleaning out of **remaining material**.

VX Vision provides a standard Windows user interface, but Crown says the firm has still been able to streamline the CAD process and maximize screen space available for graphics. "We worked very closely with a large group of skilled users during the development of the product to ensure it is fully functional, easy to use, and highly productive," he says. The firm plans on selling the product through value-added resellers (VARs), direct sales, and on-line sales.

User's View: PML Inc., an engineering service bureau, has been beta testing VX Vision tot about six months. The company specializes in "paperless manufacturing", in which customers provide proposed designs via CAD or existing parts. PML then develops prototype tooling, sample parts, and occasionally production parts using computer technologies. It has seven CAD/CAM users.

"I am very impressed with the product so far," says Steve Farentinos, vice president of PML. One of the product's strengths, he says, is its ability to accept CAD data from a variety of sources (IGES, STEP, VDA, DXF, etc.) and use it almost as if the data were created in VX Vision. "For example, I can read in an IGES file from Unigraphics and, if it's 'clean', join the surfaces into a solid and continue working with it, adding bosses, parting lines, offsets, etc. Or, if the file doesn't form a closed solid, either by design or as a result of IGES translation, I can edit the



surfaces, pushing or pulling nodes, extending or trimming until I get what I need," Farentinos explains.

The company also likes the product's integration of solid and advanced surface modeling, which helps it create complex shapes. For example, it used the software on a project involving reverse engineering and CAD model creation of the lower palm area of a human hand to aid in designing a hand brace for mechanical support in the low-pressure environment of a spacesuit. PML scanned a rubber casting of the astronaut's hand and read the point data into VX Vision, then created a surface automatically through a set of points in the lower palm area. This surface was then incorporated into the support brace, and the part was fabricated on PML's LOM rapid prototyping machine. "While working the design in VX Vision, we moved between surface to solid modeling many times to develop the complex shapes required," Farentinos says. "It was essential to be able to work as if we were using an advanced surface modeler, creating free-form surfaces without worrying about datum planes or constraints."

One shortcoming in the beta version, he says, is that the CAM functions aren't fully implemented. So, PML has used an older version of Varimetrix software for creating tool paths.

VX Vision. A new, Windows-native CAD/CAM system. Features: Built in firm's own hybrid surface/solid kernel. Provides variational/parametric #D modeling, assembly modeling, sketching, drafting, CAM, and translators. Close Competitors: SURFWARE's SURFCAM. Price: Mechanical Engineering pkg., incl. assembly modeling, drafting, and translators is \$4,000. Advanced Product Design adds advanced surfacing and ray-trace rendering for \$2,000. Introductory offer incl. both for \$3,000. Varimetrix Corp.. 407-676-3222; www.varimetrix.com.

Circle 154

**17/3,K/10 (Item 5 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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06424941 Supplier Number: 54943543 (USE FORMAT 7 FOR FULLTEXT)

**New CAD/CAM takes to the streets.**

Design News, p88

June 21, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Refereed; Academic Trade

Word Count: 142

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...assembly modeling. In the CAM arena, VX Vision offers milling, turning, wire EDM, and part **nesting**. Full modeling of in-process workpiece is supported for advanced material removal analysis. Albert-Battaglin...

...These include 5-axis swarf- cutting, bi-tangent machining, pencil tracing, and automatically cleaning out **remaining material**."

**17/3,K/11 (Item 6 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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06210269 Supplier Number: 54175300 (USE FORMAT 7 FOR FULLTEXT)

**VX Vision.**

RM

Computer-Aided Engineering, v18, n3, p27(1)

March, 1999

Language: English    Record Type: Fulltext  
Document Type: Magazine/Journal; Academic Trade  
Word Count: 843

... it furthers that approach in VX Vision. Functions include milling, turning, wire EDM, and part **nesting**. Modeling of in-process workpieces is supported for material removal analysis. Some of its more...

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VX Vision. A new, Windows-native CAD/CAM system. Features: Built in firm's own hybrid surface/solid kernel. Provides variational/parametric 3D modeling, assembly modeling, sketching, drafting, CAM, and translators. Close Competitors: SURFWARE's SURFCAM. Price: Mechanical Engineering pkg., incl. assembly modeling, drafting, and translators is \$4,000. Advanced Product Design adds advanced surfacing and ray-trace rendering for \$2,000. Introductory offer incl. both for \$3,000. Varimetrix Corp., 407-676-3222; [www.varimetrix.com](http://www.varimetrix.com)

Circle 154

**17/3,K/12 (Item 7 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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02143020 Supplier Number: 42782452  
**PIAF PRECISION NESTING SOFTWARE OPTIMIZES MATERIAL PLACEMENT FOR CUTTING**  
News Release, p1  
Feb 28, 1992  
Language: English Record Type: Abstract  
Document Type: Magazine/Journal; Trade

**ABSTRACT:**

...Group has resulted in the development of PIAF (Placement Interactif et Automatique de Formes), a **nesting** software that optimizes the placement of forms to be cut from materials such as textiles...

...angles, hole and edge management, multi-tool cutting, and distance between parts. PIAF also manages **scrap material** and indicates drop rates. Designed for users and developers of CAD/CAM software and cutting machine suppliers, PIAF is written in "C" language and operates on DOS-based personal computers as well as Sun, HP, X Windows, and other Unix workstations.

**17/3,K/13 (Item 1 from file: 160)**  
DIALOG(R)File 160:Gale Group PROMT(R)  
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00595493  
**The Chrysler designed and built XM-1, or Abrahms tank is the 1st all new tank developed in the US in 20 yrs.**  
Automotive Industries Truck & Off Highway October, 1980 p. 31-33

... burning machines cut the rolled armor plate with 80%+ of it used by clever 140 ' **nesting** ' of 180 large and small **pieces** to reduce **scrap** . Extremely smooth flat welds are being created by horizontal welding rods of stainless steel that flow like water. Machining is done on what is claimed to be the largest transfer line in the US. Although often criticized by the press, the tank is a technological wonder that appears to have licked its early development problems.

**17/3,K/14 (Item 1 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2006 The Gale Group. All rts. reserv.

0018125180 SUPPLIER NUMBER: 131605652 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**... And releases more functions for composites.(Software)**

British Plastics & Rubber, 43(1)

March, 2005

ISSN: 0307-6164 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 159 LINE COUNT: 00017

... that the prepreg flat patterns can now be arranged for cutting out with minimal -waste **material left over** .

Delcam's machining simulation within PowerMILL provides collision checking between the various parts of the machine tool and the model. The system also offers comprehensive gouge protection, and indicates any area where the tool is attempting to move outside its operating parameters. The

simulator helps to ensure that what you see on the computer is what you get on the factory floor.

www.delcam.com

Factfinder 165

**17/3,K/15 (Item 2 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2006 The Gale Group. All rts. reserv.

0018125179 SUPPLIER NUMBER: 131605651 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Delcam offers free trial of routing and engraving software ...(Software)**

British Plastics & Rubber, 43(1)

March, 2005

ISSN: 0307-6164 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 282 LINE COUNT: 00026

... the boundary left after cutting, so more jobs can be nested and cut from the **left over material** .

ArtCAM Insignia's machining capabilities include raised 3D bevel carving, cut-outs with control over start point, lead-in/out, final pass clean up and tabs for holding parts in place.

Smart engraving and pocketing with multiple tools ensure that the smaller tool only cuts where necessary. Fully automatic inlay and insert strategies ensure that parts always fit into the associated pockets, regardless of their shape and complexity.

You can download the free trial version of ArtCAM Insignia from the dedicated website at [www.artcaminsignia.com](http://www.artcaminsignia.com) or obtain it on CD from Delcam by emailing a request to [marketing@delcam.com](mailto:marketing@delcam.com).

**17/3,K/16 (Item 3 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2006 The Gale Group. All rts. reserv.

11759005 SUPPLIER NUMBER: 56973723 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Recognized for excellence.(Unique Highway Project)(the construction of the San Joaquin Hills Transportation Corridor)**

Carpenter, John

Public Works, 128, 9, 34(3)

August, 1997

ISSN: 0033-3840 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1677 LINE COUNT: 00141

... pages. CCC even had its work hours and construction areas dictated by the mating and **nesting** habits of wildlife to assure the construction process would be sensitive to environmental concerns. In...

...to environmental concerns helped bring about the discovery of a completely intact 26-ft long **skeleton** of a baleen whale estimated to be between four and five million years old.

The client, San Joaquin Hills Transportation Corridor Agency, received the design and construction of a turn-key project ahead of schedule. Through the partnering process, needs

**17/3,K/17 (Item 4 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2006 The Gale Group. All rts. reserv.

09830156 SUPPLIER NUMBER: 17761168 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Fabricator makes leap to laser FMS. (Cover Story)**

Rakowski, Leo R.

Tooling & Production, v61, n6, p55(4)

Sep, 1995

DOCUMENT TYPE: Cover Story

ISSN: 0040-9243

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2250 LINE COUNT: 00178

... to the queue position.

As time permits, the FMS operator separates the parts from the **skeleton** and stacks parts on skids, which are lifted to nearby press brakes for forming. He is aided in his task by a printout of the **nesting** program that shows the nested parts, their part numbers, and the quantity of each. The printout helps avoid confusion, particularly when similar jobs are running.

The final major component of the

**17/3,K/18 (Item 5 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2006 The Gale Group. All rts. reserv.

08327781 SUPPLIER NUMBER: 17849706 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The secrets of success. (increased demand for metalworking industry's**

**products) (Cover Story)**

Sanders, Michele

Appliance, v52, n11, p34(5)

Nov, 1995

DOCUMENT TYPE: Cover Story

ISSN: 0003-6781

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 3050 LINE COUNT: 00246

... parts as possible on a single sheet of metal, which results in better utilization of **material** and less **scrap**," says John Zappulla, division manager, U.S. Amada. "Also, it takes a very short time to change the schedule with the software, and the scheduling can be done a week ahead of time."

"This equipment has not only helped us decrease our production time," says Mr. DeVore, "but because of the nesting program, it has the extra benefits of reducing our cost and labor."

#### DOING GOOD BUSINESS

According to suppliers, business is very strong across the metal-working industry this year. Appliance producers are starting to put money back into their facilities again.

"For us, 1994 was a record year, and 1995 will be a record year again," says Dean Linders, director of marketing and sales, Red Bud Industries. "The economy has been fairly strong, and people have built enough confidence in it to retool and add new capacity. For years, manufacturers were making do with what they had, and now they have decided to improve their situation."

Al Strecker, sales manager for Bradbury, is projecting a 10 percent increase for next year. "We see at least one more good year," he says. "It is difficult to see beyond that horizon."

Mike Austin, vice president, sales and marketing, Atlas Technologies, says traditionally, the metalforming business is smaller than metal cutting, but for this year and the past year, the situation has reversed.

"Metalforming processes have largely not attracted the investment that historically metal cutting and assembly operations have," says Mr. Austin. "Now the segment is finally getting some attention because manufacturers

are realizing that sheet metal-forming accuracy is extremely important and new technologies are needed."

S.B. Whistler & Sons, Inc., a manufacturer of quick-change, reusable die systems for punching and notching sheet metal stampings, reports that it too has seen a significant increase in demand for its products this year, and expects demand to further increase throughout 1996 and into 1997.

Gordon Todd, general manager of Scott Systems International, Inc., says that although business is good, the appliance customers that are affected by DOE regulations are more discerning and have a close eye on the future.

"The effect of the uncertainty of Department of Energy (DOE) regulations is causing some delay in the placement of orders," Mr. Todd says. "Customers do not know whether to upgrade equipment based on federal mandates that may or may not take effect, or upgrade based on economic justification. With fixed expenditure budgets, some programs must be sacrificed. With a decision one way or the other from DOE, the local market should free up and result in upgrade or expansion plans being enacted that will result in orders for machinery."

He says in the global market, however, there is no muddying effect from U.S. regulations and interest is high in the emerging markets of South America, India, and China. "We expect this interest, driven and backed by the major world appliance producers, to turn into real orders on a continuous basis over the next 5 years."

#### FOCUS ON FLEXIBILITY

According to Ken Durie, vice president, marketing, JIT Automation, a major trend is the close examination of both internal and external manufacturing influences which significantly effect the production cycle. "To merely upgrade equipment without examining the other production disciplines such as Total Quality Management (TQM), Total Productive Maintenance (TPM), and Total Set Up Change (TSUC), is both shortsighted and ineffective," he says.

Mr. Austin of Atlas Technologies says flexibility is an important aspect to consider. "Appliance producers want equipment that can operate in different ways when producing different parts," he says. "This means that simpler and smaller parts can be produced at faster rates, and a larger number of parts can be combined and produced together."

Atlas worked with Whirlpool Corporation in producing its redesigned side-by-side refrigerator/freezers. Whirlpool's Ft. Smith, AR, division needed to increase its processing flexibility without sacrificing reliability

**17/3,K/19 (Item 6 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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08124425 SUPPLIER NUMBER: 17389671 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Plastics technology: manufacturing handbook & buyers' guide 1995/96.(Buyers Guide)**

Plastics Technology, v41, n8, pCOV(941)  
August, 1995

DOCUMENT TYPE: Buyers Guide ISSN: 0032-1257 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 174436 LINE COUNT: 15187

**17/3,K/20 (Item 7 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2006 The Gale Group. All rts. reserv.

05911487 SUPPLIER NUMBER: 12446607 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Machine cells meet JIT need. (just-in-time manufacturing)**

Lorincz, James A.

Tooling &amp; Production, v58, n2, p50(4)

May, 1992

ISSN: 0040-9243

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 2264

LINE COUNT: 00183

... changed. The machine includes automated part sorting for both large and small parts and automatic **skeleton** removal and disposal. Merry Mechanization software is used for individual part programming and Optimization software drives the entire operation--accepting, **nesting**, and making parts to production requirements.

**The next steps**

As more automation is added, the cell approaches being a flexible machine cell. Components may be added through addition of discrete pieces of equipment or by modifying equipment combinations in the cell. Trumpf identifies five elements of a typical flexible manufacturing cell:

1) The machine cell comprises a punch press, punch/laser combination, or laser cutting machine to which automatic loading and unloading are added. Materials are delivered to the machine from stacks and finished parts are taken away, freeing the operator to set up tools, programs, and the next job.

2) A raw material buffer store enables the operator to change materials in the middle of a run if needed or run several jobs using different materials with only one setup.

3) Nesting capability makes it possible to process several different parts, remove them from the machine, sort, and store them.

4) Large-capacity automatic tool magazines make changeover for small lot sizes and JIT production possible.

5) System management software monitors tools, NC programs, and materials--eliminating setup times and making sure they are available on a just-in-time basis to keep lines running without operator intervention.

While flexible manufacturing systems for the sheet-metal industry have typically been linear and sequential, US Amada has introduced an alternative called MARS, a material flow management system that moves, buffers, and stores material and keeps track of both raw material and processed material in the system by computer.

Available in combinations from standalone up to fully automated units, MARS is intended to give sheet-metal fabricators flexible manufacturing capability by serving any mix of shears, press brakes, punch presses, laser cutters, and other fabricating equipment, in virtually any cellular configuration.

The system is compatible with metal fabricating equipment of all manufacturers and is configured to particular user needs. The system's shelving modules can be stacked up to 12 units high and can extend as much as 100 meters (330 ft) in length. Material can be accessed from either side and from both ends and can be delivered to various workstations via optional automated carts.

Set	Items	Description
S1	12	(SCRAP OR UNUSED OR USABLE OR REMAINING OR LEFT()OVER OR U- NCUT OR UNPUNCH? OR UN() (CUT OR PUNCH? OR SHEAR?)) (2N) (METAL - OR MATERIAL? OR BLANK? ? OR SECTION? OR PIECE?) OR SKELETON
S2	20713	MATCH??? OR (MAK??? OR MADE) () (AVAILABLE OR ACCESSIBLE) OR OFFER??? OR PROVID???
S3	6	S1 AND S2

File 256:TecInfoSource 82-2006/Apr  
(c) 2006 Info.Sources Inc



**3/3,K/1**

DIALOG(R)File 256:TecInfoSource  
(c) 2006 Info.Sources Inc. All rts. reserv.

00157732            DOCUMENT TYPE:   Review

**PRODUCT NAMES:   Animation   (830339)**

**TITLE:   ANATOMY FOR ANIMATORS PART II**

AUTHOR:   Theodore, Steve

SOURCE:   Game Developer,       v12 n11   p36(3) Dec 2005

ISSN: 1073-922X

HOME PAGE:   <http://www.gdmag.com>

RECORD TYPE:   Review

REVIEW TYPE:   Product Analysis

REVISION DATE:   20060300

...lumbar, thoracic, and cervical), how to get from anatomical knowledge to a good working animation **skeleton** , resolving problems emerging from the trouble that animation packages have with recurved bone chains, choosing...

...most bending and twisting takes place in the lumbar region. When roughing out a character **skeleton** , tradeoffs have to be made between visual fidelity, ease of animation control, and in-game performance. More bones will usually **provide** better deformation, particularly if it is desired to capture the flowing line of action correctly. It is not likely that the designer will want to construct a character with an exact bone-by-bone version of a real human spine. With larger bone counts, deformations will get smoother and sinuous motions will be more realistic. Users should first lay down the bones for the spine and then check the local axis arrangements before adding arm or head bones. The local axis systems in the spine have to be lined up so they all respond alike to pitch or roll inputs. Today's models, which have higher vertex counts, can produce something nearer to the look of an actual abdominal crunch, rather than the disconcerting accordion folds that are the result of realistic spinal placement on low-policy models. If a spine is being built with more than six or

**3/3,K/2**

DIALOG(R)File 256:TecInfoSource  
(c) 2006 Info.Sources Inc. All rts. reserv.

00157246            DOCUMENT TYPE:   Review

**PRODUCT NAMES:   PLM (Product Lifecycle Management)   (802522); 3D Imaging (813794); Computer Aided Design - Computer Aided Manufacturing   (830047); MCAD (Mechanical Computer Aided Design)   (814383)**

**TITLE:   Design Moves to the Next Frontier**

AUTHOR:   Brincheck, Robert

SOURCE:   Desktop Engineering Magazine,       v11 n3   p16(4) Nov 2005

ISSN: 1085-0422

HOME PAGE:   <http://www.deskeng.com>

RECORD TYPE:   Review

REVIEW TYPE:   Product Analysis

REVISION DATE: 20060200

...them for handling significant changes in form, fit, or function. With digital manufacturing, support is **provided** for process, tooling, and factory design planning, along with simulation of operations, ergonomics, and other...

...of speed-bumps, collisions, and worker matters before they occur, and reduction or rework of **scrap material**. Economic advantages from efficiencies realized include better understanding of tools required for production, better training, more communication earlier in the design process, and the ability to start production planning and tooling that is measured months or years before suppliers would have received a 2D drawing that would be the starting point.

**3/3,K/3**

DIALOG(R)File 256:TecInfoSource

(c) 2006 Info.Sources Inc. All rts. reserv.

00156357

DOCUMENT TYPE: Review

**PRODUCT NAMES: XLIFF (XML Localization File Format) (244263); XML (837709)**

**TITLE: What Is XLIFF and Why Should I Use It?**

AUTHOR: Jewtushenko, Tony Reynolds, Peter

SOURCE: WebServices Journal, v5 n8 p48(6) Aug 2005

HOMEPAGE: <http://www.wsj2.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

REVISION DATE: 20060100

...and metadata that addresses many challenges and matters for localization. Examples of actual use are **provided**, and a discussion is **provided** of XLIFF's development and future. XLIFF presently **provides** solutions for localization of many disparate file formats, lack of version management metadata in native...

...localizable content in the original files to XLIFF, while leaving non-translatable content in a **skeleton** file. XLIFF also permits transformation of an entire resource file to an XLIFF file. The structure of XLIFF is shown in an example that shows the bilingual nature of XLIFF files, which makes the overall model more straightforward when all the additional features of the format are taken into account, including pre-translation and version tracking. Each file element contains header and body child elements. Described examples of file elements are trans-unit, source, and target. Also discussed are extensibility, version control, and alternate transactions. The solution designed for a customer of Bowne Global Solutions is described in which XLIFF made sure that the technical quality of the end delivery was assured.

**3/3,K/4**

DIALOG(R)File 256:TecInfoSource

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00147893

DOCUMENT TYPE: Review

**PRODUCT NAMES: Kaydara MOTIONBUILDER 4.0 (715352)**

**TITLE: Motionbuilder 4.0: Kaydara adds character to its animation package**

AUTHOR: Maestri, George

SOURCE: Computer Graphics World, v26 n6 p44(2) Jun 2003

ISSN: 0271-4159

HOMEPAGE: <http://www.cgw.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20031230

...this reason, MOTIONBUILDER works best as a companion to a more traditional 3D tool. Kaydara **provides** MOTIONBUILDER's FBX file format and plug-ins for most of the major 3D packages. Setting up the program is easy. The software comes with a standard human **skeleton** as well as the option of building specific skeletons for types of characters. The interface is fast. An even newer version of MOTIONBUILDER is expected to hit the market soon.

**3/3,K/5**

DIALOG(R)File 256:TecInfoSource

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00144712 DOCUMENT TYPE: Review

**PRODUCT NAMES: Web Site Design (838543); XML (837709); XSLT (eXtensible Stylesheet Language Transformations) (844811)****TITLE: Create a Template-Based Web Site: Use XML and XSLT to manufacture...**

AUTHOR: Anderson, Jonny

SOURCE: Visual Studio Magazine, v12 n14 p30(6) Dec 2002

ISSN: 1075-1955

HOMEPAGE: <http://www.vcdj.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20030430

...and illustrations show how to create a template-based Web site. A sample shows a **skeleton** e-commerce site, which lets the user select a product from a dynamic catalog that...

...create the data store, and XSLT is used to write the templates. The XML DOM **provides** objects for merging XML data with XSLT templates to create HTML Web pages on demand. As a result, the template-based site is made up of three types of files, Active Server Pages, page templates, and data files.

**3/3,K/6**

DIALOG(R)File 256:TecInfoSource

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00144456 DOCUMENT TYPE: Review

**PRODUCT NAMES: Absolute Character Tools 1.5 (154733)**

**TITLE: Absolute Character Tools 1.5: Muscles for 3ds max from cgCharacter**

**AUTHOR:** King, Doug

**SOURCE:** Computer Graphics World, v26 n1 p32(1) Jan 2003

**ISSN:** 0271-4159

**HOME PAGE:** <http://www.cgw.com>

**RECORD TYPE:** Review

**REVIEW TYPE:** Review

**GRADE:** B

**REVISION DATE:** 20030430

...and they deform as the parent objects move. After modeling the character, adding a Bone **skeleton**, and setting up rigging, users then add a layer of muscle and should then be...

...down panel from which the deformation engine to be run is selected. The Blend engine **offers** the animators several choices, including control over Bulge, Static Forces, Collision, and Dynamics.

Set	Items	Description
S1	63323	(SCRAP OR UNUSED OR USABLE OR REMAINING OR LEFT()OVER OR U-NCUT OR UNPUNCH? OR UN() (CUT OR PUNCH? OR SHEAR?)) (2N) (METAL - OR MATERIAL? OR BLANK? ? OR SECTION? OR PIECE?) OR SKELETON
S2	2174677	MATCH??? OR (MAK??? OR MADE) () (AVAILABLE OR ACCESSIBLE)
S3	1076021	FABRICATOR? OR MANUFACTURER? OR METALWORK?
S4	5	S1(S)S2(S)S3
S5	5	RD (unique items)
File	47:	Gale Group Magazine DB(TM) 1959-2006/Mar 28 (c) 2006 The Gale group
File	570:	Gale Group MARS(R) 1984-2006/Mar 29 (c) 2006 The Gale Group
File	635:	Business Dateline(R) 1985-2006/Mar 30 (c) 2006 ProQuest Info&Learning
File	476:	Financial Times Fulltext 1982-2006/Mar 31 (c) 2006 Financial Times Ltd
File	477:	Irish Times 1999-2006/Mar 30 (c) 2006 Irish Times
File	710:	Times/Sun.Times(London) Jun 1988-2006/Mar 30 (c) 2006 Times Newspapers
File	711:	Independent(London) Sep 1988-2006/Mar 30 (c) 2006 Newspaper Publ. PLC
File	756:	Daily/Sunday Telegraph 2000-2006/Mar 30 (c) 2006 Telegraph Group
File	757:	Mirror Publications/Independent Newspapers 2000-2006/Mar 30 (c) 2006
File	387:	The Denver Post 1994-2006/Mar 29 (c) 2006 Denver Post
File	471:	New York Times Fulltext 1980-2006/Mar 30 (c) 2006 The New York Times
File	492:	Arizona Repub/Phoenix Gaz 19862002/Jan 06 (c) 2002 Phoenix Newspapers
File	494:	St LouisPost-Dispatch 1988-2006/Mar 29 (c) 2006 St Louis Post-Dispatch
File	631:	Boston Globe 1980-2006/Mar 29 (c) 2006 Boston Globe
File	633:	Phil.Inquirer 1983-2006/Mar 28 (c) 2006 Philadelphia Newspapers Inc
File	638:	Newsday/New York Newsday 1987-2006/Mar 28 (c) 2006 Newsday Inc.
File	640:	San Francisco Chronicle 1988-2006/Mar 29 (c) 2006 Chronicle Publ. Co.
File	641:	Rocky Mountain News Jun 1989-2006/Mar 30 (c) 2006 Scripps Howard News
File	702:	Miami Herald 1983-2006/Mar 28 (c) 2006 The Miami Herald Publishing Co.
File	703:	USA Today 1989-2006/Mar 29 (c) 2006 USA Today
File	704:	(Portland)The Oregonian 1989-2006/Mar 30 (c) 2006 The Oregonian
File	713:	Atlanta J/Const. 1989-2006/Mar 30 (c) 2006 Atlanta Newspapers
File	714:	(Baltimore) The Sun 1990-2006/Mar 30 (c) 2006 Baltimore Sun
File	715:	Christian Sci.Mon. 1989-2006/Mar 30 (c) 2006 Christian Science Monitor
File	725:	(Cleveland)Plain Dealer Aug 1991-2006/Mar 29 (c) 2006 The Plain Dealer
File	735:	St. Petersburg Times 1989- 2006/Mar 29 (c) 2006 St. Petersburg Times

5/3,K/1 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2006 The Gale group. All rts. reserv.

04274845 SUPPLIER NUMBER: 17156362 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Gift-in-kind clearing house: matching problems to yield common solutions.**  
Richardson, Celie B.  
Phi Delta Kappan, v76, n10, p792(2)  
June, 1995  
ISSN: 0031-7217 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1306 LINE COUNT: 00107

... A technical high school needs equipment in its science lab. It's a match.

\* A **manufacturer** of hot-air balloons wonders what to do with **scrap materials**. An art teacher needs materials for student projects. It's a **match**.

\* An accounting firm moving to a new office buys new furniture to replace perfectly good furniture that doesn't fit the new space. A junior high school needs furniture for its office and library. It's a match.

The Gift-In-Kind Clearing House makes these matches every day through an innovative program that uses a regional Community Resource Center warehouse in Charlotte, North Carolina, to serve schools and nonprofits in the two Carolinas. A mail-order program serves community colleges nationwide. The program funnels surplus inventory, equipment, and supplies that have been donated by business and industry to schools, colleges, and non-profit community service organizations. Gift-In-Kind enables the schools and service organizations to obtain these materials for as little as 10% of normal cost.

For a true win-win situation, everybody has to gain something. Through Gift-In-Kind, schools and service organizations gain the needed materials. And thanks to the Internal Revenue Service (something you don't hear very often), the corporations can get a tax benefit from donating materials to qualified nonprofit organizations.

John Woods, a vice president of Branch Banking & Trust in Charlotte, North Carolina, has called the Community Resource Center program "a unique method that creates a win-win situation for corporations and nonprofits. The tax advantages and the reduced costs for members who reuse corporate by-products create this win-win situation," he explains.

The tax benefit arises because Gift-In-Kind is a nonprofit organization that serves other nonprofit organizations. Corporations can obtain up to 200% of the cost of the tax valuation of their donation, an attractive alternative to paying for storage or selling the same items to scrap dealers or liquidators at less than 10 cents on the dollar. Disposal of obsolete, discontinued, and out-of-date supplies, merchandise, and products through the Gift-In-Kind network can have a positive effect on profits and at the same time get useful materials directly into the hands of teachers and students. Moreover, more and more businesses have a strong incentive to support schools and colleges because they see the link between the quality of education and the quality of the work force.

Still, whatever the motivation, there is the problem of distribution - getting surplus materials to the people who need them. If every company with valuable surplus materials had to find a school and make arrangements for delivery, even the tax break might not offset the time and trouble. It's tough, too, for schools to contact the many companies that may have useful materials. That's where Gift-In-Kind comes in. Companies can simply ship their surplus materials to Gift-In-Kind, and for them the transaction is complete.

Another benefit to companies is the wide range of merchandise, supplies, and equipment that can be handled through the Community Resource Center network, because Gift-In-Kind serves every level of education, from

preschool through graduate school, and also serves most major service organizations.

Visitors to the Community Resource Center see light fixtures, paint, pumps, electrical devices, piping, welding equipment, and laboratory devices all sharing space with medical supplies, office equipment, fabrics and sewing materials, computer software, books, paper, pens, pencils, art supplies, glue, tape, file cabinets, desks, and personal computers. The centers also accept used furniture and equipment if it's in good working order.

When a group of instructors from Isothermal Community College in the North Carolina mountain town of Spindale visited the Charlotte warehouse, an electronics instructor picked out computer cables while Evelyn Heflin, an instructor in the child care/teacher associate program, packed boxes full of decorative and plain paper, posterboard, and fabrics. "This is just wonderful," Heflin said. "It saves us so much in supplies. That saves the college money."

As budgets become tighter, schools and service organizations have become very creative in finding new uses for free or inexpensive equipment and materials. Upholstery fabric becomes the backdrop for plays. Second-graders use small plastic parts to practice counting. The nylon from hot-air balloons is transformed into decorations and costumes. Elementary students practice their printing and writing on ledger paper. Cartoning material becomes poster board. Computer storage racks are recycled as book and file holders.

Wilma Means, a teacher in Concord, North Carolina, who also advises a community club for girls, takes her club members on trips to the Charlotte warehouse. "The children like to go over to the warehouse and explore," she said. Means has become an advocate for the Gift-In-Kind program. "Any workshop I go to," she said, "I share the information with the participants. It's a way for businesses to get a tax write-off and at the same time help other people."

Schools and service organizations find the Gift-In-Kind system as easy to use as do the donor companies. A school pays a small fee and receives roughly 10 times the value of the fee in merchandise, an outstanding return by any standard. Then administrators, teachers, and other staff members can visit the warehouse periodically to take items they can use. The value of the items is charged against the school's "account."

Several levels of membership are offered. For example, an elementary school or small agency typically pays \$300, which would entitle it to \$3,000 in merchandise. Larger organizations or schools

5/3,K/2 (Item 1 from file: 570)  
DIALOG(R)File 570:Gale Group MARS(R)  
(c) 2006 The Gale Group. All rts. reserv.

01695951 Supplier Number: 53101634 (USE FORMAT 7 FOR FULLTEXT)

**REPORTER'S NOTEBOOK.**

SportStyle, p31(1)

Sept 1, 1998

ISSN: 0162-2242

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 547

(USE FORMAT 7 FOR FULLTEXT)

**TEXT:**

...sites for another eight stores in the next two fiscal years ...  
Chipman-Union, Inc., sock **manufacturer** for Adidas, Ocean Pacific,  
Porsche, and Odor Eaters (among others) has signed a sock licensing...

...MAGIC and ASR trade shows this month... Eastpak lays its "Guaranteed for Life...Maybe Longer" **skeleton** ad campaign to rest and launches a new blitz with the tagline "Get It On..."

...held since 1916. The Dallas Cowboys want to use a similar star on footwear, to **match** those on its team uniforms and helmets, but Converse chairman Glenn N. Rupp warns, "we will vigorously protect our exclusive rights to the five-pointed star" for footwear.

**5/3,K/3 (Item 1 from file: 635)**  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2006 ProQuest Info&Learning. All rts. reserv.

2704575 925318431

**Watch designs show the bare necessities**

Gillentine, Amy

Colorado Springs Business Journal p1

Nov 11, 2005

WORD COUNT: 711

DATELINE: Glenwood Springs Colorado

**TEXT:**

...that sells a unique product -- naked watches. These unusual timepieces are also called **skeleton** watches, because wearers can literally watch time pass through the motion of gears...

...before I took the final leap into the business, I ordered about 100 from the **manufacturer** and showed them around town. I wanted to make sure I was on the right...

...national watch magazine, Olszewski said the company has struggled to keep inventory on hand to **match** orders. "It's just exploded," he said. "We've...  
...open a small business. We ran into the usual issues -- checking out the **manufacturers**, trying to find an inexpensive place to have them made," he said. "...

...front to get things in place. Even now, getting national exposure brought its own challenges -- **matching** inventory to demand."

**5/3,K/4 (Item 1 from file: 471)**  
DIALOG(R)File 471:New York Times Fulltext  
(c) 2006 The New York Times. All rts. reserv.

04062769 NYT Sequence Number: 247952001117 (USE FORMAT 7 FOR FULLTEXT)

**ART GUIDE**

New York Times, Late Edition - Final ED, COL 01, P 42

Friday November 17 2000

DOCUMENT TYPE: Newspaper; Schedule LANGUAGE: English RECORD TYPE:

Fulltext SECTION HEADING: SECTE

Word Count: 8634

... as well as rocket ships, flying saucers, astronauts and space stations, most produced by Japanese **manufacturers** after World War II. It includes the first toy robot, a little yellow machine-man...

...materials - candies, toys, photographs, dolls, holy pictures, liquor bottles, fruit, even a video of a **skeleton** dancing to a Tito Puente beat



- for the entertainment of day-tripping spirits and museum...

...and quickly gained international attention for her sculptural installations made of many tiny objects - screws, **matches**, toothpicks - grouped in patterns that suggested computer boards and Job Lot store displays. The seven pieces in her belated New York gallery solo debut are more organic and dramatic: they look like midair explosions with fragments of furniture zooming off into space, boring into walls, breaking into splinters, with everything held together by a network of clips, cables and bentwood strips. Coming from a virtuoso of improvised accumulation, the results may seem a little too "done," but they're still pretty astonishing (Cotter).

"TRES COMPLEMENTAIRES," Mary Ryan Gallery, 24 West 57th Street, (212)397-0669 (through Wednesday). Time has dimmed the success story of two American artists, Maud Hunt Squire (1873-1954) and Ethel Mars (1876-1959), who expatriated themselves to France in 1906 and spent the rest of their lives there (except during World War I). This show, mounted in cooperation with the Susan Sheehan Gallery, is an attempt to re-establish their work, best represented by their early prints: Squire's color etchings and Mars's color woodblocks. After the war the two moved to the south of France, where they concentrated on drawing and painting, producing slight but charming scenes of beach and village life. But the early prints stand out (Glueck).

**5/3,K/5 (Item 1 from file: 641)**

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**NFL THIS WEEK TEAMS, THE LOWDOWN, NUMBERS GAME, TIPPING THE SCALES**

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